

# U. S. NAVAL WEATHER SERVICE COMMAND

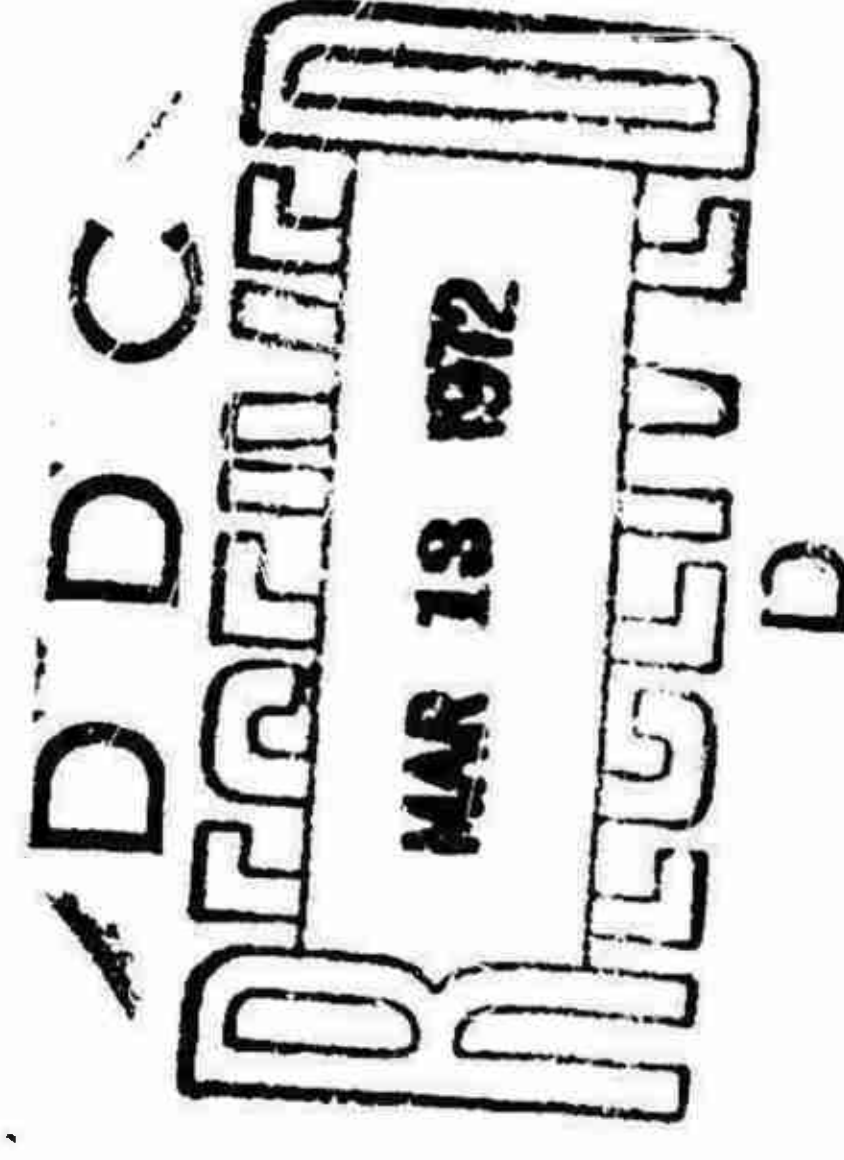
## SUMMARY OF SYNOPTIC METEOROLOGICAL OBSERVATIONS

SOUTHWEST ASIAN COASTAL MARINE AREAS

AD 737909

### VOLUME 6

AREA 21 - S. GULF OF OMAN  
AREA 22 - S.E. PERSIAN GULF  
AREA 23 - N.E. PERSIAN GULF  
AREA 24 - N.W. PERSIAN GULF



## SUMMARY OF SYNOPTIC METEOROLOGICAL OBSERVATIONS (MONTHLY AND ANNUAL)

The data contained in these tables were obtained from tape data Family 11 (TDF-11), Marine Surface Observations. TDF-11 was primarily funded by the Naval Weather Service Command and selected by NWSEL Asheville as the most comprehensive collection of marine surface observations from which to develop a series of coastal marine summaries. The source was punched cards of weather observations taken aboard vessels of varying registry. They were recorded on magnetic tape in a common format. Elements not in WMO code were converted to this code where possible. Where this was not possible, the original data were retained within the tape record as supplemental data. A very limited quality control was attempted as the punched cards were converted to tape records and, where possible, missing psychrometric data were computed.

Before the tables are prepared, extreme values of selected parameters are scrutinized so that obvious errors can be excluded. This method is necessarily subjective since the only available record of many observations is the punched card from which the tape records were prepared. Frequently there is no concrete evidence to prove or disprove the validity of questionable data.

Percentage frequencies are computed to hundredths and rounded to tenths. An asterisk (\*) indicates percentage frequency  $> 0$  and  $< .05$ . A value followed by a plus sign indicates greater than or equal to that value (8+ means 8 or greater). NH = low cloud amount (or middle cloud amount when low clouds are not present). The hours given in this publication are GMT.

The geographic position shown on the tables is the central position (centroid) of the observations within the area. This value may fall outside irregular areas.

Also, it should be noted that these data are based upon observations made by ships in passage. Such ships tend to avoid bad weather when possible, thus biasing our data toward good weather samples.

Because the number of observations may vary from one table to the other, no absolute relationship exists between the tables. As an example, air temperature counts for Tables 13 and 17 may not be identical since only observations containing both air temperature and relative humidity were counted in Table 13 and only those with both temperature and air-sea temperature difference were counted in Table 17. No requirement for simultaneous recording of all elements was made.

The primary period of record is that period (extending back in time from the most recent data) during which eighty percent of the total number of observations were recorded. The overall period is the earliest to the latest observed data used in compiling the tables. Tables 18 and 19 were tabulated from selected decks only and the overall period indicates the period of record of this data source. The primary period for these tables is not shown.

## THE TABLES

Annual values are computed on the basis of the sum of the monthlies divided by the number of months.

Tables 1 through 19 appear in numerical order for each month, with the annual tables appearing after the tables for December. Tables 20 and 21 appear at the end of the entire series, after the annual summary for Table 19. The series of summaries appear in numerical order by area number.

Table 1 - Percentage Frequency of Weather Occurrence by Wind Direction (8 pts.).

Table 2 - Percentage Frequency of Weather Occurrence by Hour (GMT).

Table 3 - Percentage Frequency of Wind Direction (8 pts.) by Speed and by Hour (GMT). This table includes mean wind speed (kts.) by direction (8 pts.).

Table 3A - Percentage Frequency of Wind Direction (8 pts.) by Speed and by Hour (GMT). This table includes mean wind speed (kts.) by direction.

Table 4 - Percentage Frequency of Wind Speed by Hour (GMT). This table includes mean speed by hour.

Table 5 - Percentage Frequency of Total Cloud Amount (Okas) by Wind Direction (8 pts.). This table includes mean cloud amount by wind direction.

Table 6 - Percentage Frequency of Ceiling Heights (feet, NH  $\geq 4/8$ ) and Occurrence of NH  $\leq 5/8$  by Wind Direction (8 pts.).

Table 7 - Cumulative Percentage Frequency of Occurrence of Ceiling Height (feet, NH  $\geq 4/8$ ) and Visibility (Nautical Miles).

Table 7A - Percentage Frequency of Low Cloud Amount (for Middle Cloud Amount if Low Clouds are not present), and Percentage Frequency of Sky Obscured. Amounts are in Okas.

Table 8 - Percentage Frequency of Wind Direction (8 pts.) vs. Occurrence or Non-Occurrence of Precipitation at Observation Time with Varying Values of Visibility (Nautical Miles).

Table 9 - Percentage Frequency of Wind Direction (8 pts.) vs. Wind Speed (kts.) with Varying Values of Visibility (Nautical Miles).

Table 10 - Percentage Frequency of Ceiling Heights (feet, NH  $\geq 4/8$ ) and Occurrence of NH  $\leq 5/8$  by Hour (GMT).

Table 11 - Percentage Frequency of Visibility (Nautical Miles) by Hour (GMT).

Table 12 - Cumulative Percentage Frequency of Ranges of Visibility (Nautical Miles) and Ceiling Height (feet, NH  $\geq 4/8$ ) by Hour (GMT).

Table 13 - Percentage Frequency of Relative Humidity (%) by Air Temperature ( $^{\circ}$ F.).

Table 14 - Percentage Frequency of Wind Direction (8 pts.) by Air Temperature ( $^{\circ}$ F.).

Table 15 - Means, Extremes, and Percentiles of Air Temperature ( $^{\circ}$ F.) by Hour (GMT). Extreme temperatures are the one maximum and one minimum value appearing in the marine data file. The extremes may be unrepresentative due to sampling errors. Extrapolation from the percentile values usually gives a better estimate of expected extreme conditions.

Table 16 - Percentage Frequency of Relative Humidity (%) by Hour (GMT).

Table 17 - Percentage Frequency of Air Temperature ( $^{\circ}$ F.) and the Occurrence of Fog vs. Air-Sea Temperature Difference ( $^{\circ}$ F.).

Air-Sea Temperature Difference is:

Positive when the air is warmer than the sea surface; Negative when the air is cooler than the sea surface. In the table heading, the limits of the temperature ranges appear in a vertical arrangement along the top of the table.

Table 18 - Percentage Frequency of Surface Wind Speed (kts.) and Direction (8 pts.) vs. Sea Height (feet). Source deck 128 for which data are available from mid-1963 was used for these tables. This deck represents the latest and most complete homogeneous source of wave data available. Here, only sea waves generated by local winds in the vicinity of the observer are summarized. This table continues for 2-1/2 pages for each month and 2-1/2 pages for the annual summary.

Table 19 - Percentage Frequency of Wave Height (feet) vs. Wave Period (seconds). In this table when both sea and swell waves are present in an observation, the higher of the two is used. If both are the same height, the longer period is chosen. When only one of the wave groups is observed, either sea or swell, it is used in the summary. Swell waves are those generated by winds distant from the local area where the observation is taken.

Tables 1-19 appear together for each month and in the annual summary. The following two tables appear at the end of the entire series for each area.

Note: In this volume, percentage frequencies at specified hours of the day refer to percentages of observations taken at those hours, rather than percentages of observations taken at all hours. Data at adjacent hours are summarized with data at synoptic hours, i.e., data from 02 and 04 GMT are combined with data from 03 GMT.

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24	N.W. Persian Gulf	475-632

Table 20 - Monthly and Annual Percentage Frequencies and Means of Sea Surface Temperature ( $^{\circ}$ F.).

Table 21 - Monthly and Annual Sea Level Pressures (millibars). This table includes means by hour and for all hours, extreme values with the corresponding dates of occurrence and percentile values.

Copies of this document are obtainable from the National Technical Information Service (NTIS), Springfield, Virginia 22151.



# DIRECTION AND WEATHER CODES

## CONVERSION OF WIND AND WAVE DIRECTION TO 8 POINTS

A reduced bias system was employed in converting wind and wave directions to 8 points. This method attaches weighting values to observations which overlap two different 8 point sectors and treats them as "decimal observation counts." These decimal quantities are rounded to whole numbers for presentation as "observational counts" in the tables. Figures 1-4 below show the 8 point system with other systems superimposed.

Note: Because of rounding, sub-total sums of "observational counts" may not equal grand totals.

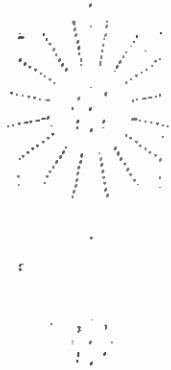


Fig. 1 The 8 point direction system

Fig. 2 The 16 point direction system superimposed on the 8 point system.

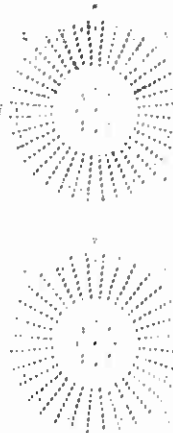


Fig. 3 The 16 point direction system superimposed on the 8 point system

Fig. 4 The 16 point direction system superimposed on the 8 point system

VISIBILITY (VV)		PRESENT WEATHER (1960 WMO CODE 4677)			
CODE	INTERPRETATION (NAUTICAL MILES)	CODE	INTERPRETATION	CODE	INTERPRETATION
90-93	VV<1/2	58-59	RAIN	13-17	THUNDER
		60-65		95-99	LIGHTNING
94	1/2≤VV<1	91-94			THUNDERSTORM
		(68-69, 95, 97 IF TEMP > 40° F)		10-12	FOG (WITHOUT PRECIPITATION)
95	1≤VV<2	80-82, (83-84 IF TEMP > 40° F)	RAIN SHOWERS	40-49	
		30-35, 58-59	DRIZZLE	04-03	SMOKE HAZE
96	2≤VV<5	56-57	FREEZING PRECIPITATION	06-09	DUST
		66-67		30-39	BLOWING DUST BLOWING SNOW
97	5≤VV<10	70-75, 85-86, (66-69, 83-84, 95, 97 IF TEMP ≤ 40° F)	SNOW	00-03	NO SIGNIFICANT WEATHER AT OB TIME
98	10≤VV<25	76-79	OTHER FROZEN PRECIPITATION	14-16	
				18-29	
99	≥25	87-90	HAIL	00-49	NO PRECIPITATION AT OB TIME
		93-94		50-99	PRECIPITATION AT OB TIME
		96, 99			

NOTE: The following WMO codes were counted in two weather categories. 58-59 (rain and drizzle); 68-69 (rain and snow); 93-94 (rain and hail); 96 and 99 (hail and thunder/lightning/thunderstorm); 95 and 97 (snow and thunder/lightning/thunderstorm), or (rain and thunder/lightning/thunderstorm).

NOTE: < means less than  
 > means greater than;  
 ≥ means less than or equal to;  
 ≤ means greater than or equal to.

NOTE: The following WMO codes were counted in two weather categories. 58-59 (rain and drizzle); 68-69 (rain and snow); 93-94 (rain and hail); 96 and 99 (hail and thunder/lightning/thunderstorm); 95 and 97 (snow and thunder/lightning/thunderstorm), or (rain and thunder/lightning/thunderstorm).

WAVE HEIGHT (from source decks 128 and 116)

RECORDED CODE (HALF METERS)	RANGE (METERS)	AS RECORDED IN TABULATION (FEET)	RECORDED CODE (HALF METERS)	RANGE (METERS)	AS RECORDED IN TABULATION (FEET)	RECORDED CODE (HALF METERS)	RANGE (METERS)	AS RECORDED IN TABULATION (FEET)
00	≤.25}		12	>5.75 to 6.25}	20-22	30	>14.75 to 15.25	
01	>.25 to .75}		13	>6.25 to 6.75}		31	>15.25 to 15.75	
02	>.75 to 1.25}		14	>6.75 to 7.25}	23-25	32	>15.75 to 16.25	
03	>1.25 to 1.75}		15	>7.25 to 7.75}		33	>16.25 to 16.75	42-60
04	>1.75 to 2.25}		16	>7.75 to 8.25}		34	>16.75 to 17.25	
05	>2.25 to 2.75}		17	>8.25 to 8.75}		35	>17.25 to 17.75	
06	>2.75 to 3.25}		18	>8.75 to 9.25}		36	>17.75 to 18.25	
07	>3.25 to 3.75}		19	>9.25 to 9.75}				
08	>3.75 to 4.25}		20	>9.75 to 10.25}		37	>18.25 to 18.75	
09	>4.25 to 4.75}		21	>10.25 to 10.75}		38	>18.75 to 19.25	
10	>4.75 to 5.25}		22	>10.75 to 11.25}	33-40	39	>19.25 to 19.75	61-70
11	>5.25 to 5.75}		23	>11.25 to 11.75}		40	>19.75 to 20.25	
			24	>11.75 to 12.25}		41	>20.25 to 20.75	
			25	>12.25 to 12.75}		42	>20.75 to 21.25	
			26	>12.75 to 13.25}				
			27	>13.25 to 13.75}		43	>21.25 to 21.75	71-86
			28	>13.75 to 14.25}		44	>21.75 to 22.25	
			29	>14.25 to 14.75}		45	>22.25 to 22.75	
						46	>22.75 to 23.25	
						47	>23.25 to 23.75	
						48	>23.75 to 24.25	
						49	>24.25 to 24.75	
						50	>24.75 to 25.25	
						51	>25.25 to 25.75	
						52	>25.75 to 26.25	
						53-99	>26.25 to 49.75}	≥87
						Indeterminate-INDET		

JANUARY

PERIOD: (PRIMARY) 1951-1971  
(OVER-ALL) 1966-1971

AREA 0021 S. GULF OF OMAN  
23.1N 59.3E

TABLE 1

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	RAIN	RAIN SHWR	DRZL	PRECIPITATION TYPE			HAIL	PCT FREQ PCPN AT DB TIME	TOTAL PCPN DBS	THOR LTNG				OTHER WEATHER PHENOMENA				TOTAL DBS
				FRZG PCPN	FRZG SNOW	OTHER PCPN								PCPN	WD	HAZE	BLWG SNOW	
N	.2	.2	.0	.0	.0	.0	.0	.4	3	.0	.0	.1	.4	.0	.0	.1	.4	140
NE	.4	.0	.0	.0	.0	.0	.0	.4	3	.2	.0	.4	.0	.0	.0	.4	.0	87
E	.0	.0	.0	.0	.0	.0	.0	.0	0	.1	.0	.1	.0	.0	.0	.1	.0	84
SE	.1	.0	.0	.0	.0	.0	.0	.0	0	.2	.0	.0	.0	.1	.0	.0	.0	125
S	.1	.0	.0	.0	.0	.0	.0	.2	1	.2	.0	.0	.0	.0	.0	.0	.0	72
SW	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	22
W	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	33
NW	.1	.0	.0	.0	.0	.0	.0	.1	1	.0	.0	.2	.4	.1	.1	.4	.4	132
VAR	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	111
TOT DBS	.6	.2	.1	.0	.0	.0	.0	.0	9	.5	.3	.7	.7	.3	.7	.7	.7	609
TOT PCT	.7	.2	.1	.0	.0	.0	.0	1.1		.6	.4	.9	.5	.4	.9	.5	.5	100.0

TABLE 2

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	RAIN	RAIN SHWR	DRZL	PRECIPITATION TYPE			HAIL	PCT FREQ PCPN AT DB TIME	TOTAL PCPN DBS	THOR LTNG	OTHER WEATHER PHENOMENA				TOTAL DBS			
				FRZG PCPN	SNOW PCPN	OTHER PCPN					FOG MD	SMOKE HAZE	BLSG BLWG	DUST SNOW		SIG WEA		
0000	.5	.5	.0	.0	.0	.0	.0	.9	2	.9	.5	.5	.0	.0	.0	.0	.0	221
0600	1.3	.4	.0	.0	.0	.0	.0	1.7	4	.0	.9	.4	.9	.9	.9	.9	.9	235
1215	.5	.0	.0	.0	.0	.0	.0	.5	1	.5	.5	1.8	1.8	.5	.5	.5	.5	219
1800	.5	.0	.5	.0	.0	.0	.0	1.0	2	1.0	.0	.5	.5	.5	.5	.5	.5	192
TOT	.6	.2	.1	.0	.0	.0	.0	1.0	9	.5	.4	.7	.7	.4	.7	.7	.7	867
PCT	.7	.2	.1	.0	.0	.0	.0	1.0		.6	.5	.8	.8	.5	.8	.8	.8	100.0

JANUARY

PERIOD: (PRIMARY) 1951-1971  
(OVER-ALL) 1866-1971

AREA 0021 S. GULF OF OMAN  
23.1N 59.3E

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)										HOUR (GMT)									
	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPO	00	03	06	09	12	15	18	21			
N	2.5	9.8	4.6	.5	.0	.1	162	17.6	9.5	14.5	23.8	14.2	24.1	18.6	19.0	21.0	25.0			
NE	1.8	7.8	1.2	.0	.0	.0	101	11.0	7.2	19.6	9.5	9.0	13.0	12.6	21.4	12.2	7.0			
E	2.1	7.1	1.2	.0	.0	.0	96	10.4	6.3	10.7	7.1	6.8	11.1	13.0	14.3	11.7	4.0			
SE	.9	10.4	4.0	.4	.0	.0	145	15.7	9.1	14.4	14.3	14.0	16.7	19.1	31.0	14.4	9.0			
S	1.3	4.7	2.6	.1	.0	.0	80	8.7	9.0	7.6	13.1	10.1	5.6	8.2	4.8	9.3	9.0			
SW	.7	1.8	.5	.0	.0	.0	28	3.0	6.7	3.2	1.2	4.5	11.1	2.2	.0	.6	10.0			
W	1.0	2.3	.8	.2	.0	.0	39	4.3	7.8	3.7	4.8	8.0	5.6	1.9	.0	3.6	4.0			
NW	2.2	7.6	5.3	1.0	.0	.0	148	16.1	10.0	16.2	11.9	19.0	13.0	17.6	.0	13.5	16.0			
VAR	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
CALM	13.3	477	187	21	0	1	123	13.3	7.4	20.1	14.3	14.4	.0	6.8	9.5	13.8	16.0			
TOT OBS	238	51.6	20.2	2.3	.0	.1	924			214	21	216	27	219	21	181	25			
TOT PCT	25.8						100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0			

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)										41+	TOTAL OBS	PCT FREQ	MEAN SPO	HOUR (GMT)									
	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPO	00	03	06	09	12	15	18	21								
N	7.4	7.9	.7	.4	.1	162	17.6	9.5	15.3	15.3	15.3	15.3	15.3	15.3	15.3	15.3								
NE	5.5	4.9	.5	.0	.0	101	11.0	7.2	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6								
E	6.6	3.6	.2	.0	.0	96	10.4	6.3	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4								
SE	5.5	9.1	.9	.1	.0	145	15.7	9.1	14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.4								
S	3.4	4.5	.8	.0	.0	80	8.7	9.0	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1								
SW	1.7	1.4	.0	.0	.0	28	3.0	6.7	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0								
W	2.2	1.6	.4	.0	.0	39	4.3	7.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8								
NW	5.7	8.0	.4	.1	.0	148	16.1	10.0	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9								
VAR	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0								
CALM	13.3					123	13.3	.0	19.6	19.6	19.6	19.6	19.6	19.6	19.6	19.6								
TOT OBS	475	379	64	5	1	924		7.4	235	235	235	235	235	235	235	235								
TOT PCT	51.4	41.0	6.9	.5	.1	100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0								

PERIOD: (PRIMARY) 1951-1971  
(OVER-ALL) 1866-1971

JANUARY

APCA 0021 S, GULF OF OMAN  
23.1N 59.3E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
0000	19.6	13.6	47.2	18.7	.9	.0	.0	6.7	100.0	235
0600	12.8	15.6	50.2	19.3	1.6	.0	.4	7.2	100.0	243
1200	7.1	10.0	55.4	23.8	3.8	.0	.0	8.3	100.0	240
1800	14.1	10.2	53.9	16.9	2.9	.0	.0	7.6	100.0	206
TOT	123	115	477	167	21	0	1	7.4		924
PCT	13.3	12.4	51.6	20.2	2.3	.0	.1		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)  
BY WIND DIRECTION

WIND DIR	0-4	5-7	8-12	13-18	19-24	25-30	31-36	37-42	43-48	49-54	55-60	61-66	67-72	73-78	79-84	85-90	91-96	97-100
N	11.2	2.4	2.1	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
NE	7.2	1.3	1.5	.7	.7	.7	.7	.7	.7	.7	.7	.7	.7	.7	.7	.7	.7	.7
E	5.6	2.3	1.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
SE	10.4	2.2	1.4	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
S	6.7	1.1	.9	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2
SW	2.3	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
W	3.6	.4	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NW	11.1	2.1	2.5	.8	.8	.8	.8	.8	.8	.8	.8	.8	.8	.8	.8	.8	.8	.8
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	10.5	1.4	1.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT OBS	504	92	92	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29
TOT PCT	69.7	13.6	12.7	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT) NH >4/8  
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WIND DIR	0-5	5-14	15-17	18-24	25-34	35-47	48-50	TOTAL OBS	MEAN CLOUD COVER	000 149	150 299	300 599	600 599	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH ANY	5/8 HGT	TOTAL OBS
N	11.2	2.4	2.1	1.3	2.1	1.7	1.3	123	2.2	.0	.0	.1	.5	.9	.5	.4	.0	.0	.1	14.5	123	
NE	17.2	1.3	1.5	.0	1.5	.0	.7	77	2.1	.0	.0	.1	*	.1	.6	.0	.0	.0	.1	9.5	77	
E	5.6	2.3	1.8	.0	1.5	.0	.0	77	2.0	.0	.0	.0	.0	.1	.4	.3	.0	.0	.1	9.8	77	
SE	10.4	2.2	1.4	1.0	1.4	.0	.0	109	1.9	.0	.0	.0	.0	.1	.4	.1	.0	.1	.0	14.1	109	
S	6.7	1.1	.9	.2	.9	.0	.2	64	1.6	.0	.0	.0	.0	.0	.4	.0	.0	.0	.0	8.5	64	
SW	2.4	.3	.3	.0	.3	.0	.0	22	1.3	.0	.0	.0	.1	.0	.0	.0	.1	.0	.0	2.8	22	
W	3.6	.4	.6	.0	.6	.0	.0	33	1.3	.0	.0	.0	.2	.2	.0	.0	.0	.0	.0	4.1	33	
NW	11.1	2.1	2.5	.8	1.8	.0	.0	118	2.0	.0	.0	.4	.5	.3	.8	.3	.1	.0	.0	14.1	118	
VAR	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
CALM	10.5	1.4	1.7	.0	1.7	.0	.0	98	1.3	.0	.0	.0	.3	.3	.4	.3	.0	.0	.0	12.3	98	
TOT OBS	504	196	92	29	192	49	196	723	1.8	.0	.0	.5	13	14	27	10	2	.1	.3	64.8	723	
TOT HGT	49.7	13.6	12.7	2.5	12.7	2.9	12.5	100.0		.0	.0	.7	1.6	1.9	3.7	1.4	.3	.1	.4	89.6	100.0	



PERIOD: (PRIMARY) 1951-1971  
(OVER-ALL) 1966-1971

JANUARY

ARE: 0031 S. GULF OF OMAN  
23.1N 59.3E

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE  
OF CEILING HEIGHT (NH) >4/8) AND VSBY (NM)

CEILING (FEET)	DR >10	DR >5	DR >2	VSBY (NM) >1	DR >1/2	DR >1/4	DR >50YD	DR >0
DR >6500	.7	.7	.7	.7	.7	.7	.7	.7
DR >5000	.9	.9	1.0	1.0	1.0	1.0	1.0	1.0
DR >3500	2.2	2.4	2.5	2.5	2.5	2.5	2.5	2.5
DR >2000	5.6	6.2	6.3	6.3	6.3	6.3	6.3	6.3
DR >1000	7.9	8.6	8.8	8.8	8.8	8.8	8.8	8.8
DR >500	8.9	10.1	10.3	10.3	10.3	10.3	10.3	10.3
DR >300	9.7	11.0	11.3	11.3	11.4	11.4	11.4	11.4
DR >150	9.7	11.0	11.3	11.3	11.4	11.4	11.4	11.4
DR >0	9.7	11.0	11.3	11.3	11.4	11.4	11.4	11.4
TOTAL	76	74	86	86	87	87	87	87

TOTAL NUMBER OF OBS: 764

PCT FREQ NH <5/8: 88.6

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	TOTAL OBS
0	47.9	18.2	11.3	6.8	4.2	3.6	3.2	2.2	2.6	.0
812										

PERIOD: (PRIMARY) 1951-1971  
(OVER-ALL) 1866-1971

JANUARY

AREA 0021, S. GULF OF OMAN  
23.1N 59.3E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF  
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1/2<1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1
NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT %	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1
1<2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
2<5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NO PCP	.1	.1	.0	.0	.0	.0	.2	.3	.0	.0	.7	.9
TOT %	.1	.1	.0	.0	.0	.0	.2	.3	.0	.0	.7	.9
5<10	.2	.1	.0	.0	.0	.0	.0	.1	.0	.0	.4	.4
NO PCP	1.1	1.3	.7	1.2	.4	.4	.8	1.1	.0	.6	7.7	7.7
TOT %	1.3	1.5	.7	1.2	.4	.4	.8	1.2	.0	.6	8.1	8.1
10+	.1	.2	.0	.0	.1	.0	.0	.0	.0	.0	.5	.5
NO PCP	15.7	9.0	9.5	14.3	8.3	2.4	3.1	14.9	.0	13.1	90.5	90.5
TOT %	15.9	9.3	9.5	14.3	8.5	2.4	3.1	14.9	.0	13.1	91.0	91.0
TOT OBS	17.3	10.9	10.3	15.3	8.9	2.8	4.2	16.4	.0	13.8	100.0	807

PERIOD: (PRIMARY) 1951-1971  
(OVER-ALL) 1956-1971

JANUARY

AREA 0021 S. GULF OF OMAN  
23.1N 59.3E

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED  
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.2	.2	.0	.0	.0	.0	.0	.2	.0	.0	.6	.6
	11-21	.0	.0	.0	.0	.0	.0	.2	.1	.0	.0	.3	.3
	22+	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	.1
	TOT %	.2	.2	.0	.0	.1	.0	.2	.3	.0	.0	1.0	1.0
>10	0-3	.0	.0	.4	.1	.1	.2	.2	.2	.0	.6	1.4	1.4
	4-10	.9	1.1	.6	.7	.0	.4	.4	.8	.0	.0	4.9	4.9
	11-21	.3	.2	.0	.2	.4	.0	.1	.2	.0	.0	1.3	1.3
	22+	.2	.1	.0	.2	.0	.0	.0	.0	.0	.0	.6	.6
	TOT %	1.4	1.4	.7	1.2	.4	.7	.7	1.2	.0	.6	6.2	6.2
10+	0-3	2.2	1.0	2.0	.9	1.3	.5	.8	2.0	.0	12.3	23.9	23.9
	4-10	8.2	6.5	4.0	10.0	4.8	1.2	2.0	6.7	.0	.0	46.6	46.6
	11-21	4.2	1.1	1.2	3.9	2.2	.6	.5	4.9	.0	.0	18.5	18.5
	22+	.5	.0	.0	.1	.0	.0	.1	1.0	.0	.0	1.7	1.7
	TOT %	15.5	9.4	9.9	14.8	8.3	2.3	3.4	14.6	.0	12.3	90.7	90.7
TOT OBS		903											
TOT PCT		17.2	10.4	10.5	16.0	8.8	3.0	4.3	16.1	.0	13.1	100.0	

JANUARY

PERIOD: (PRIMARY) 1951-1971  
(OVER-ALL) 1866-1971

AREA 0021 S. GULF OF OMAN  
23.1N 59.2E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND  
OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	100 200	200 300	300 400	400 500	500 600	600 700	700 800	800 900	900 1000	1000 1100	1100 1200	1200 1300	1300 1400	1400 1500	1500 1600	1600 1700	1700 1800	1800 1900	1900 2000	2000 2100	2100 2200	2200 2300	2300 2400	TOTAL OBS
00003	.0	.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
06009	.0	.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
12015	.0	.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
18021	.0	.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
TOT PCT	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0

TABLE 11

PERCENT FREQUENCY VSBY (NH) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.0	.5	.0	.0	6.7	92.8	194
06009	.0	.0	.0	.5	6.6	92.9	212
12015	.0	.0	.0	1.6	6.0	92.3	183
18021	.0	.0	.0	1.1	9.1	89.7	175
TOT PCT	.0	.1	.0	.6	54	703	764
	.0	.1	.0	.8	7.1	92.0	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NH) AND/OR  
CEILING HGT (FEET, NH >4/8) BY HOUR

HOUR (GMT)	<150 CEILING	<600 HGT	<1000 HGT	1000+ AND 5+	NH <3/8 AND 5+	TOTAL OBS
00003	.0	1.5	3.1	8.8	88.1	194
06009	.0	1.4	3.2	8.5	88.2	212
12015	.0	.5	2.7	6.0	91.3	183
18021	.0	.6	4.0	11.4	84.6	175
TOT PCT	.0	.8	25	65	673	764
	.0	1.0	3.3	8.6	88.1	100.0

JANUARY

PERIOD: (PRIMARY) 1951-1971  
(OVER-ALL) 1866-1971

AREA 0021 S. GULF OF OMAN  
23.1N 59.3E

TABLE 13

TEMP F	PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP										TOTAL OBS	PCT FREQ
	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100				
85/89	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0	2	.3
80/84	.0	.0	.0	.6	.8	.5	.2	.0	.0	.0	13	2.0
75/79	.0	.0	.5	4.1	6.3	6.1	3.1	1.4	.0	.0	142	21.7
70/74	.0	.0	1.5	6.1	18.3	17.4	12.4	3.7	.0	.0	389	59.5
65/69	.0	.0	.6	3.2	4.1	3.7	12.1	1.3	.0	.0	102	15.5
60/64	.0	.0	.0	.3	.5	.0	.0	.2	.0	.0	6	.9
TOTAL	.0	.0	.0	19	94	198	151	116	46	.0	624	100.0
PCT	.0	.0	2.9	14.4	30.3	27.7	17.7	7.0				

TABLE 14

TEMP F	PERCENT FREQUENCY OF WIND DIRECTION BY TEMP										VAR	CALM
	N	NE	E	SE	S	SW	W	NW				
85/89	.0	.0	.2	.1	.1	.0	.0	.0	.0	.0	.0	.0
80/84	.5	.2	.2	.5	.3	.0	.0	.3	.0	.0	.0	.2
75/79	3.3	.8	2.5	3.7	3.6	1.2	1.3	3.1	.0	.0	2.3	.0
70/74	9.0	7.6	6.2	10.8	4.6	1.9	2.1	9.3	.0	.0	8.0	.0
65/69	4.7	2.3	1.3	.6	.8	*	.8	3.7	.0	.0	1.8	.0
60/64	.3	.2	.0	.0	.0	.0	.1	.4	.0	.0	.0	.0
TOTAL	113	71	66	102	11	21	28	109	0	0	PC	
PCT	17.4	10.9	10.2	15.7	9.4	3.2	4.3	16.7	.0	.0	12.2	

TABLE 15

HOUR (GMT)	MEANS, EXTREMES AND PERCENTILES OF TEMP (DEC F) BY HOUR										TOTAL OBS
	MAX	90%	75%	50%	25%	1%	MIN	MEAN			
0003	78	77	75	71	67	65	63	71.0	65	71.0	234
0609	84	83	80	74	68	65	61	73.8	61	73.8	237
1215	85	84	80	74	68	64	62	74.0	62	74.0	245
1821	81	78	76	72	66	62	61	71.3	61	71.3	213
TOT	85	81	78	72	67	64	61	72.6	61	72.6	969

TABLE 16

HOUR (GMT)	PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR										TOTAL OBS
	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN		
0003	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	184
0609	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	189
1215	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	171
1821	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	154
TOT	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	698



PERIOD: (PRIMARY) 1951-1971  
(OVER-ALL) 1866-1971

JANUARY

AREA 0021 S. GULF OF OMAN  
23.1N 59.3E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)  
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	61	63	65	67	69	71	73	75	77	79	81	83	TOT	M	NO FOG
11/13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	1	.0	.1
9/10	.0	.0	.0	.0	.0	.0	.0	.1	.1	.1	.4	.1	5	.0	.7
7/3	.0	.0	.0	.0	.0	.0	.1	.1	.3	.1	.3	.1	4	.0	.5
5	.0	.0	.0	.0	.0	.0	.1	.1	.9	.4	.4	.1	12	.0	1.6
4	.0	.0	.0	.0	.0	.4	1.3	.3	.3	.3	.3	.0	17	.0	2.3
3	.0	.0	.0	.0	.0	.3	1.6	.1	.0	.0	.0	.0	15	.0	2.0
2	.0	.0	.0	.1	.1	3.4	2.0	.0	.0	.0	.0	.0	41	.0	5.5
1	.0	.0	.0	.7	4.3	1.3	.0	.0	.0	.0	.0	.0	47	.0	6.3
0	.0	.0	.1	2.2	6.9	1.3	.1	.0	.0	.0	.0	.0	79	.0	10.6
-1	.0	.0	.1	2.6	7.1	.3	.1	.0	.0	.0	.0	.0	74	.0	10.0
-2	.0	.0	.1	6.6	6.3	.1	.0	.0	.0	.0	.0	.0	98	.1	13.1
-3	.0	.0	.7	7.0	4.5	.0	.0	.0	.0	.0	.0	.0	94	.0	12.5
-4	.0	.0	.3	8.1	2.2	.0	.0	.0	.0	.0	.0	.0	78	.0	10.5
-5	.0	.0	1.1	6.1	1.1	.0	.0	.0	.0	.0	.0	.0	61	.0	8.2
-6	.0	.0	1.9	3.5	.4	.0	.0	.0	.0	.0	.0	.0	43	.0	5.8
-7/-8	.3	2.7	3.9	.3	.0	.0	.0	.0	.0	.0	.0	.0	53	.0	7.1
-9/-10	.7	1.5	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	17	.0	2.3
-11/-13	.1	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	.0	.5
TOTAL	6	64	306	279	69	15	3						742		741
PCT	.8	8.6	41.2	37.5	9.5	2.0	.4						100.0	.1	99.9

PERIOD: (PRIMARY)  
(OVER-ALL) 1963-1971

JANUARY  
TABLE 18

AREA 0021 S. GULF OF OMAN  
23.1N 59.3E

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	2.4	4.2	1.0	.0	.0	.0	6.5	2.8	2.1	.0	.0	.0	.0	4.9
1-2	.0	3.0	1.4	.0	.0	.0	4.4	1.0	4.7	1.6	.0	.0	.0	7.3
3-4	.0	1.8	2.4	.0	.0	.0	4.2	.0	2.7	.1	.0	.0	.0	2.8
5-6	.0	.4	1.5	.0	.0	.0	1.9	.0	.5	.0	.0	.0	.0	.5
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.4	.5	.0	.0	.9	.0	.0	.1	.0	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-50	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.4	9.3	5.7	.5	.0	.0	17.9	3.8	10.0	1.9	.0	.0	.0	15.7

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.0	.0	.0	.0	.0	1.0	.1	3.5	.0	.0	.0	.0	3.7
1-2	.0	4.7	1.3	.0	.0	.0	6.2	.0	7.2	1.5	.0	.0	.0	8.7
3-4	.0	1.4	1.3	.0	.0	.0	2.7	.0	2.1	4.3	.0	.0	.0	6.4
5-6	.0	.4	.0	.0	.0	.0	.4	.0	.1	2.5	.0	.0	.0	2.7
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-50	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	7.4	2.3	.0	.0	.0	10.2	.1	13.0	8.3	.6	.0	.0	22.1

PERIOD (PRIMARY)  
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TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.9	1.9	.0	.0	.0	.0	3.8	.0	1.1	.0	.0	.0	.0	1.1
1-2	.5	2.8	1.5	.0	.0	.0	4.8	.0	1.5	.0	.0	.0	.0	1.5
3-4	.0	.9	.0	.0	.0	.0	.9	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.5	.0	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0
7	.0	.5	.0	.4	.0	.0	.9	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.4	6.1	2.0	.4	.0	.0	10.9	.0	2.7	.0	.0	.0	.0	2.7

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.0	1.5	.0	.0	.0	.0	1.5	1.9	1.8	.0	.0	.0	.0	3.7
1-2	.0	.9	.0	.0	.0	.0	1.9	.0	2.5	.0	.0	.0	.0	2.5
3-4	.0	.5	.5	.0	.0	.0	1.0	.0	1.3	3.0	.0	.0	.0	4.3
5-6	.0	.0	.0	.0	.0	.0	.0	.0	1.1	1.5	.0	.0	.0	2.7
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.0	.5	.0	.0	1.5
8-9	.0	.0	.4	.0	.0	.0	.4	.0	.0	.5	.5	.0	.0	1.1
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.0	2.9	.9	.0	.0	.0	4.8	1.9	6.7	6.2	1.0	.0	.0	15.8

PERIOD: (PRIMARY)  
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TABLE 18 (CONT)

WIND SPEED (KTS) VS SEA HEIGHT (FT)								TOT	OBS
HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT		
<1	24.1	14.1	.0	.0	.0	.0	38.2		
1-2	2.9	22.4	5.8	.0	.0	.0	31.1		
3-4	.0	9.5	9.5	.0	.0	.0	19.1		
5-6	.0	2.1	5.0	.0	.0	.0	7.1		
7	.0	.4	.8	.8	.0	.0	2.1		
8-9	.0	.0	1.2	.8	.0	.0	2.1		
10-11	.0	.0	.0	.0	.0	.0	.0		
12	.0	.0	.0	.4	.0	.0	.4		
13-16	.0	.0	.0	.0	.0	.0	.0		
17-19	.0	.0	.0	.0	.0	.0	.0		
20-22	.0	.0	.0	.0	.0	.0	.0		
23-25	.0	.0	.0	.0	.0	.0	.0		
26-32	.0	.0	.0	.0	.0	.0	.0		
33-40	.0	.0	.0	.0	.0	.0	.0		
41-48	.0	.0	.0	.0	.0	.0	.0		
49-60	.0	.0	.0	.0	.0	.0	.0		
61-70	.0	.0	.0	.0	.0	.0	.0		
71-86	.0	.0	.0	.0	.0	.0	.0		
87+	.0	.0	.0	.0	.0	.0	.0		
TOT PCT	27.0	48.5	22.4	2.1	.0	.0	100.0		241

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+ TOTAL	MEAN HGT
<6	13.2	24.1	16.6	3.1	.5	.2	.2	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	357
6-7	.0	.7	3.1	3.9	.8	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	57
8-9	.0	.3	1.3	.5	.3	.3	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	19
10-11	.0	.5	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3
12-13	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
INDET	22.3	3.7	.7	1.5	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	175
TOTAL	218	180	136	55	12	8	2	1	0	2	0	0	0	0	0	0	0	0	0	614
PCT	35.5	29.3	22.1	9.0	2.0	1.3	.3	.2	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0

PERIOD: (PRIMARY) 1951-1971  
(OVER-ALL) 1870-1971

FEBRUARY

AREA 0021 S. GULF OF OMAN  
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TABLE 1

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	RAIN SHR	DRZL SHR	PRECIPITATION TYPE			MAIL PCPN	MAIL PCPN AT OBS	TOTAL PCPN OBS	THDR LTNG	OTHER WEATHER PHENOMENA					TOTAL OBS
			FRZG PCPN	SNOW PCPN	OTHER PCPN					FOG PCPN	SMOKE NO	HAZE NO	BLWG NO	OUST NO	
N	.2	.0	.0	.0	.0	.0	.0	.3	.1	.1	.1	.1	.1	.1	118
NE	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1	.1	.0	.0	57
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	55
SE	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	128
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	93
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	39
W	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.1	.1	.0	.0	55
NW	.0	.0	.0	.0	.0	.0	.0	.0	.2	.1	.2	.1	.1	.1	162
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.5	.2	.2	124
TOT OBS	2	6	1	0	0	0	0	3	5	3	17	4	811	842	
TOT PCT	.2	.0	.1	.0	.0	.0	.0	.4	.6	.4	2.0	.5	96.3	100.0	

TABLE 2

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	RAIN SHR	DRZL SHR	PRECIPITATION TYPE			MAIL PCPN	MAIL PCPN AT OBS	TOTAL PCPN OBS	THDR LTNG	OTHER WEATHER PHENOMENA					TOTAL OBS
			FRZG PCPN	SNOW PCPN	OTHER PCPN					FOG PCPN	SMOKE NO	HAZE NO	BLWG NO	OUST NO	
00003	.0	.0	.0	.0	.0	.0	.0	1	.9	.5	2.3	.9	.9	.9	222
06009	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	241
12015	.9	.0	.0	.0	.0	.0	.0	2	.4	.4	3.0	.0	.0	.0	230
18021	.0	.0	.0	.0	.0	.0	.0	0	.8	.4	1.3	.4	.4	.4	279
TOT	2	0	0	0	0	0	0	3	5	3	17	4	861	881	912
PCT	.2	.0	.1	.0	.0	.0	.0	.3	.5	.3	1.9	.4	.4	.4	100.0



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PERIOD: (PRIMARY) 1951-1971  
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TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND 8Y HOUR

WIND DIR	WIND SPEED (KNOTS)						TOTAL OBS	PCT FREQ	MEAN SPO	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+				00	03	06	09	12	15	18	21
N	1.9	5.5	3.3	.4	.0	.0	131	14.1	8.8	10.3	5.9	13.1	11.5	21.2	2.9	13.5	13.2
NE	1.7	4.7	1.2	.0	.0	.0	60	6.5	7.6	3.8	2.9	5.3	.0	11.2	.0	7.1	5.9
E	1.1	6.4	.3	.0	.0	.0	73	7.9	6.6	6.0	5.9	3.4	9.5	11.7	14.7	10.0	2.9
SE	2.2	9.7	3.0	.1	.0	.0	138	14.9	7.8	16.4	20.6	13.8	7.7	16.6	23.5	12.8	10.3
S	1.7	5.5	2.8	.3	.0	.0	105	11.3	8.7	15.4	11.3	13.1	11.5	8.5	11.8	8.4	10.3
SW	.8	2.5	1.2	.0	.0	.0	45	4.9	7.6	5.9	5.9	8.6	1.9	1.6	2.9	3.3	17.6
W	.8	3.3	1.9	.4	.0	.0	59	6.4	10.4	8.3	10.3	7.4	7.7	2.2	5.9	7.0	11.8
NW	1.9	4.2	8.1	1.2	.1	.0	181	19.5	11.4	17.9	19.1	19.4	46.2	17.8	26.5	19.4	16.2
VAR	1.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	14.4	466	203	21	1	0	134	14.4	7.6	16.0	17.5	15.0	3.8	9.0	11.8	18.4	11.3
TOT OBS	238	50.2	21.9	2.3	.1	.0	429	100.0		212	17	200	26	223	17	1217	117
TOT PCT	25.6									100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)										HOUR (GMT)					
	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPO	00	03	06	09	12	15	18	21
N	6.2	6.7	1.0	.2	.0	131	14.1	8.8	9.9	9.9	12.9	19.9	13.5			
NE	3.4	2.0	.2	.0	.0	60	6.5	7.6	3.7	3.7	4.6	10.4	7.1			
E	4.8	2.9	.2	.0	.0	73	7.9	6.6	6.0	6.0	4.1	11.9	9.5			
SE	6.3	8.2	.5	.0	.0	138	14.9	7.8	16.7	16.7	13.1	17.3	12.6			
S	4.7	5.8	.7	.1	.0	105	11.3	8.7	15.2	15.2	12.9	8.8	8.5			
SW	2.6	2.1	.2	.0	.0	45	4.9	7.6	5.9	5.9	7.9	1.7	4.4			
W	1.8	3.6	.9	.1	.0	59	6.4	10.4	8.4	8.4	7.4	2.5	7.4			
NW	4.8	10.4	4.1	.1	.0	181	19.5	11.4	18.0	18.0	22.5	18.4	19.1			
VAR	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0			
CALM	14.4	496	73	5	0	134	14.4	7.6	16.2	16.2	14.6	9.2	17.9			
TOT OBS	455	42.3	7.9	.5	.0	929	100.0		229	229	226	280	234			
TOT PCT	49.0								100.0	100.0	100.0	100.0	100.0			

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PERIOD: (PRIMARY) 1951-1971  
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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47	48+				
0000	16.2	10.0	45.4	20.6	1.7	.0	.0	.0	7.8	100.0	229
0600	14.6	12.4	49.1	21.7	2.2	.0	.0	.0	7.7	100.0	226
1200	9.2	11.3	35.4	21.7	2.1	.4	.0	.0	7.9	100.0	240
1800	17.9	11.1	50.4	17.5	3.0	.0	.0	.0	7.2	100.0	234
TOT	134	104	466	203	21	1	0	0	7.6		929
PCT	14.4	11.2	50.2	21.9	2.3	.1	.0	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (HEIGHTS)  
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8-4	MEAN		TOTAL	OBS
					CLOUD	COVER		
N	11.3	1.3	1.2	.6	1.4	1.4	110	
NE	5.7	.5	.4	.1	1.1	1.1	51	
E	5.6	1.2	.9	.2	1.6	1.6	60	
SE	10.5	1.8	1.0	.8	1.6	1.6	107	
S	8.2	1.9	.8	.4	1.5	1.5	85	
SW	3.7	.3	.5	.1	1.2	1.2	35	
W	5.3	.3	.7	.1	1.1	1.1	49	
NW	14.5	2.4	1.9	.4	1.4	1.4	146	
VAR	.0	.0	.0	.0	.0	.0	0	
CALM	13.2	.9	.7	.3	.7	.7	114	
TOT OBS	593	83	61	23	1.3	1.3	750	
TOT PCT	78.0	10.9	7.0	3.0			100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT) NH 24/8)  
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WIND DIR	000	149	150	299	300	599	600	1000	1999	3499	5000	6500	8000+	NH <5/8	ANY HGT	TOTAL
N	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	110
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	51
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	60
SE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	107
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	85
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	35
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	49
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	146
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	114
TOT OBS	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	760
TOT PCT	.0	.0	.0	.0	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	100.0

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TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE  
OF CEILING HEIGHT (NH >478) AND VSBY (NH)

CEILING (FEET)	VSBY (NH)				
	OR >10	OR >5	OR >2	OR >1	OR >1/2
OR >6500	.5	.6	.6	.6	.6
OR >5000	1.9	1.1	1.1	1.1	1.1
OR >3500	1.8	2.2	2.2	2.2	2.2
OR >2000	2.7	3.2	3.2	3.2	3.2
OR >1000	4.5	5.1	5.1	5.1	5.1
OR >600	4.9	5.5	5.7	5.7	5.7
OR >300	4.9	5.5	5.7	5.9	5.9
OR >150	4.9	5.5	5.7	5.9	5.9
OR >0	4.9	5.5	5.7	5.9	5.9
TOTAL	40	45	47	48	48

TOTAL NUMBER OF OBS: 820

PCT FREQ NH <578: 94.1

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	OBSCD	TOTAL
											OBS
62.4	14.0	1.6	9.8	2.7	1.6	1.5	1.5	2.0	.0	.0	865

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF  
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL C9S
PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
ND PCP	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1	.1
TOT %	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1	.1
PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
ND PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1/2<1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1
PCP	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1
ND PCP	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT %	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1
1<2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
ND PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
2<5	.3	.0	.3	.1	.0	.0	.0	.1	.0	.1	.1	.1
PCP	.3	.0	.3	.1	.0	.0	.0	.1	.0	.1	.1	.1
ND PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT %	.3	.0	.3	.1	.0	.0	.0	.1	.0	.1	.1	.1
5<10	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2
PCP	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2
ND PCP	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT %	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2
10+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
ND PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT OBS	14.1	6.9	7.8	13.0	11.1	4.6	6.4	19.3	.0	14.6	100.0	840
TOT PCT	14.1	6.9	7.8	13.0	11.1	4.6	6.4	19.3	.0	14.6	100.0	840

PERIOD: PRIMARY: 1951-1971  
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TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED  
WITH AVERAGING VALUES OF VISIBILITY

VISBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1	.0
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	.0
	4-10	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0
	11-21	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.2	.0	.0	.0	.0	.0	.0	.0	.0	.2	.4	.0
2-5	0-3	.0	.0	.0	.0	.0	.1	.0	.1	.0	.1	.3	.0
	4-10	.2	.0	.3	.4	.0	.0	.0	.0	.0	.0	.8	.0
	11-21	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.2	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.3	.0	.3	.5	.0	.1	.0	.1	.0	.1	1.3	.0
5<10	0-3	.0	.0	.0	.3	.3	.0	.2	.2	.0	.0	2.4	.0
	4-10	.7	.1	.5	1.2	.5	.1	.3	.9	.0	.0	4.1	.0
	11-21	.4	.1	.0	.2	.2	.1	.5	1.0	.0	.0	2.7	.0
	22+	.1	.0	.0	.0	.1	.0	.1	.1	.0	.0	.4	.0
	TOT %	1.2	.2	.5	1.7	1.1	.2	1.0	2.3	.0	1.4	9.6	.0
10+	0-3	3.0	.7	1.1	2.0	1.5	.7	.6	1.5	.0	12.6	22.9	.0
	4-10	7.5	4.7	5.5	8.7	6.0	2.8	3.2	7.0	.0	.0	45.5	.0
	11-21	2.6	1.1	.4	2.5	2.5	1.0	1.4	3.1	.0	.0	18.3	.0
	22+	.2	.0	.0	.1	.2	.0	.3	1.1	.0	.0	.8	.0
	TOT %	12.3	6.5	7.0	13.3	10.1	4.5	5.5	16.7	.0	12.6	88.5	.0
TOT OBS		14.1	6.7	8.0	15.1	11.2	4.0	6.5	19.2	.0	14.4	100.0	905

PERIOD: (PRIMARY) 1951-1971  
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TABLE 10  
PERCENT FREQUENCY OF CEILING HEIGHTS (FEET) NH >4/8) AND  
OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	400 799	500 6499	600 7999	700 8499	800 9499	900 10499	1000 11499	1100 12499	1200 13499	1300 14499	1400 15499	1500 16499	1600 17499	1700 18499	1800 19499	1900 20499	2000 21499	2100 22499	2200 23499	2300 24499	TOTAL OBS
00003	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
06009	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12015	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
18021	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0

TABLE 11

HOUR (GMT)	<1/2	1/2<1	1<2	2<3	3<4	4<5	5<6	6<7	7<8	8<9	9<10	10<11	11<12	12<13	13<14	14<15	15<16	16<17	17<18	18<19	19<20	20<21	21<22	22<23	23<24	TOTAL OBS
00003	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
06009	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12015	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
18021	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0

TABLE 12

HOUR (GMT)	<150 OBS	150-500 OBS	500-1000 OBS	1000-1500 OBS	1500-2000 OBS	2000-2500 OBS	2500-3000 OBS	3000-3500 OBS	3500-4000 OBS	4000-4500 OBS	4500-5000 OBS	5000-5500 OBS	5500-6000 OBS	6000-6500 OBS	6500-7000 OBS	7000-7500 OBS	7500-8000 OBS	8000-8500 OBS	8500-9000 OBS	9000-9500 OBS	9500-10000 OBS	TOTAL OBS
00003	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
06009	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12015	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
18021	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0

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TABLE 13

TEMP F	PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP										TOTAL OBS	PCT FREQ
	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100				
85/89	.0	.0	.0	.0	.1	.1	.0	.0			2	.3
80/84	.0	.0	.0	.0	2.0	1.2	.6	.1			31	4.5
75/79	.0	.1	.6	2.6	4.8	9.3	4.1	1.7			100	23.3
70/74	.0	.0	.9	4.5	16.0	17.9	15.0	7.0			421	61.2
65/69	.0	.0	.5	1.6	3.3	2.2	2.2	.7			73	10.5
60/64	.0	.0	.0	.0	.0	.0	.0	.1			1	.1
TOTAL	0	1	14	54	181	211	150	67			689	100.0
PCT	.0	.1	2.0	9.3	26.3	30.7	21.6	9.7				

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP										
N	NE	E	SE	S	SW	W	NW	VAR	CALM	
.1	.1	.0	.0	.0	.0	.0	.4	.0	.0	
.3	.5	.9	.5	.9	.1	.0	.4	.0	.0	
2.8	1.3	1.9	3.9	2.7	1.7	1.6	3.7	.0	1.0	
8.4	3.5	4.1	10.1	6.5	2.9	4.3	13.0	.0	8.4	
2.2	.9	.5	1.2	1.1	.4	.9	2.5	.0	1.3	
.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	
.94	.43	.50	1.07	.76	.32	.46	1.36	.0	1.00	
13.7	6.3	7.4	15.6	11.2	4.7	6.8	19.8	.0	14.2	

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR										
HOUR (GMT)	MAX	90%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS	
00003	82	79	75	71	67	64	64	71.2	246	
06009	88	84	80	74	70	67	67	74.5	243	
12015	87	86	82	74	70	68	63	75.0	245	
18021	80	79	75	72	68	65	64	71.9	255	
TOT	88	83	79	73	68	65	63	73.1	989	

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR										
HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.0	.0	.0	.0	.0	.0	.0	.0	189
06009	.0	.0	.0	.0	.0	.0	.0	.0	.0	184
12015	.0	.0	.0	.0	.0	.0	.0	.0	.0	172
18021	.0	.0	.0	.0	.0	.0	.0	.0	.0	193
TOT	0	82	201	224	158	73	73	73	73	736

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)  
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	61	65	69	73	77	81	85	TOT	W	WOG
	64	68	72	76	80	84	88		FOG	FUG
11/13	.0	.0	.0	.0	.0	.1	.1	2	.0	.2
9/10	.0	.0	.0	.0	.1	.5	.4	8	.0	1.0
7/8	.0	.0	.0	.0	.2	.9	.0	9	.0	1.1
5	.0	.0	.0	.1	.9	.6	.0	13	.0	1.6
4	.0	.0	.0	.1	1.1	.5	.0	14	.0	1.7
3	.0	.0	.2	.5	2.0	.0	.0	22	.0	2.7
2	.0	.0	.2	1.7	2.0	.0	.0	32	.0	4.0
1	.0	.0	.4	4.0	1.6	.0	.0	48	.0	6.0
0	.0	.0	.6	5.5	1.0	.0	.0	57	.0	7.1
-1	.0	.1	2.2	9.4	.7	.0	.0	100	.1	12.3
-2	.0	.4	4.1	9.0	.7	.0	.0	112	.0	14.0
-3	.0	.7	8.2	5.9	.2	.0	.0	113	.2	14.5
-4	.0	.9	6.5	2.9	.0	.0	.0	81	.0	10.1
-5	.0	1.2	4.0	.9	.0	.0	.0	74	.0	9.2
-6	.0	.6	2.1	.2	.0	.0	.0	49	.0	6.1
-7/-8	.0	1.0	2.1	.4	.0	.0	.0	24	.0	3.0
-9/-10	.1	.4	.4	.1	.0	.0	.0	28	.0	3.5
-11/-13	.1	.1	.0	.0	.0	.0	.0	8	.0	1.0
-14/-16	.1	.0	.0	.0	.0	.0	.0	2	.0	.2
TOTAL	3	45	302	341	86	21	4	802	3	799
PCT	.4	5.6	37.7	42.5	12.7	2.3	.3	100.0	.4	59.6



PERIOD: (PRIMARY)  
(OVER-ALL) 1963-1971

FEBRUARY  
TABLE 10

AREA 0021 S. GULF OF OMAN  
23.1N 59.3E

PCT FAFD OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.5	1.2	.0	.0	.0	.0	1.7	.5	1.5	.0	.0	.0	.0	2.0
1-2	.0	6.9	1.1	.0	.0	.0	7.9	.0	4.1	.0	.0	.0	.0	4.1
3-4	.0	3.6	2.2	.0	.0	.0	5.8	.0	.1	.5	.0	.0	.0	.7
5-6	.0	.0	.4	.8	.0	.0	1.2	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	11.6	3.7	.8	.0	.0	16.7	.5	5.7	.5	.0	.0	.0	6.7

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.7	1.5	.0	.0	.0	.0	1.9	.7	1.3	.1	.0	.0	.0	2.1
1-2	.0	5.3	.4	.0	.0	.0	5.7	.5	5.7	1.2	.0	.0	.0	7.4
3-4	.0	.9	.0	.0	.0	.0	.9	.7	1.1	1.1	.0	.0	.0	2.8
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	.0	.0	.0	.5
7	.0	.0	.5	.0	.0	.0	.5	.0	.0	.5	.0	.0	.0	.5
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	7.7	.9	.0	.0	.0	9.0	1.9	8.1	3.4	.0	.0	.0	13.4

PERIOD: (PRIMARY)  
(OVERALL) 1963-1971

FEBRUARY  
TABLE 18

AREA 0021 S. GULF OF OMAN  
23.1N 59.3E

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.6	1.2	.4	.0	.0	.0	3.2	.0	1.2	.0	.0	.0	.0	1.2
1-2	.0	3.4	.0	.0	.0	.0	3.4	.5	1.5	.5	.0	.0	.0	2.5
3-4	.4	2.0	1.1	.5	.0	.0	4.0	.0	.7	.3	.0	.0	.0	1.2
5-6	.0	.0	1.1	.0	.0	.0	1.1	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.0	6.6	2.5	1.1	.0	.0	12.2	.5	3.3	1.1	.0	.0	.0	4.9

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.9	.0	.0	.0	.0	.5	1.1	.8	.3	.0	.0	.0	2.4
1-2	.5	3.3	.9	.0	.0	.0	4.8	.0	.6	5.4	.0	.0	.0	8.1
3-4	.0	3.2	1.5	.0	.0	.0	4.6	.0	2.2	6.3	.5	.0	.0	9.1
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.5	3.3	1.3	.0	.0	5.2
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	.5	.0	.0	.5
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	.0	.5
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	7.4	2.4	.0	.0	.0	10.3	1.1	6.2	16.7	2.4	.5	.0	26.7

PERIOD: (PRIMARY)  
(OVER-ALL) 1963-1971

FEBRUARY

AREA 0021 S. GULF OF OMAN  
23.1N 59.3E

TABLE 18 (CONT)

HGT	WIND SPEED (KTS) VS SEA HEIGHT (FT)							TOT SBS
	0-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	24.5	1.9	.6	.0	.0	.0	33.2	
1-2	1.7	25.7	7.5	.0	.0	.0	34.9	
3-4	.8	10.8	10.4	.8	.0	.0	22.8	
5-6	.0	.4	4.1	1.7	.0	.0	6.2	
7	.0	.0	1.2	.0	.0	.0	1.2	
8-9	.0	.0	.4	.0	.0	.0	.4	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	27.0	44.8	24.5	3.3	.4	.0	100.0	
							241	

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+ TOTAL	MEAN HGT	
<6	11.0	23.8	18.4	3.8	.5	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	348	2
6-7	.0	1.3	3.5	3.2	1.2	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	57	4
8-9	.2	.2	.2	.2	.7	.3	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	11	6
10-11	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	4
12-13	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	3
>13	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	3
INDET	21.6	4.8	3.2	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	180	1
TOTAL	197	182	153	49	14	6	1	0	0	0	0	0	0	0	0	0	0	0	0	602	2
PCT	32.7	30.2	25.4	8.1	2.3	1.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

MARCH

PERIOD: (PRIMARY) 1930-1971  
(OVER-ALL) 1860-1971

AREA 00°15' S, GULF OF OMAN  
23.2°N 59.3°E

TABLE 1

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	RAIN	RAIN SHWR	ORIL	PRECIPITATION TYPE			HAIL	PCT FREQ PCPN AT 08 TIME	TOTAL PCPN DBS	THDR LTNG	OTHER WEATHER PHENOMENA					TOTAL DBS
				FRZG PCPN	SNOW	OTHER FRZN PCPN					FOG	SMOKE	HAZE	BLWG	DUST	
N	.1	.0	.0	.0	.0	.0	.0	.1	1	.1	.0	.0	.6	.1	10.4	97
NE	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.2	.3	4.2	41
E	.1	.0	.0	.0	.0	.0	.0	.1	1	.0	.0	.0	.3	.1	4.5	44
SE	.1	.0	.0	.0	.0	.0	.0	.1	1	.2	.0	.0	.5	.5	11.3	108
S	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.7	.0	13.4	123
SW	.0	.1	.0	.0	.0	.0	.0	.1	1	.0	.0	.0	.2	.0	9.5	85
W	.0	.1	.0	.0	.0	.0	.0	.1	1	.0	.0	.1	.3	.0	9.5	86
NW	.1	.0	.0	.0	.0	.0	.0	.2	2	.0	.0	.0	1.0	1.0	19.6	191
VAR	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	0	.1	.0	.0	.6	.3	9.5	92
TOT DBS	4	2	1	0	0	0	0	.0	7	4	2	2	38	20	801	870
TOT PCT	.5	.2	.1	.0	.0	.0	.0	.8		.5	.2	.2	4.4	2.3	92.1	100.0

TABLE 2

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	RAIN	RAIN SHWR	ORIL	PRECIPITATION TYPE			HAIL	PCT FREQ PCPN AT 08 TIME	TOTAL PCPN DBS	THDR LTNG	OTHER WEATHER PHENOMENA					TOTAL DBS
				FRZG PCPN	SNOW	OTHER FRZN PCPN					FOG	SMOKE	HAZE	BLWG	DUST	
0003	.4	.4	.0	.0	.0	.0	.0	.8	2	.8	.4	.4	3.8	2.5	92.0	238
0609	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.4	.4	4.0	2.2	93.3	223
12015	.4	.4	.0	.0	.0	.0	.0	.8	2	.0	.0	.0	5.9	1.7	91.5	236
18021	.9	.0	.5	.0	.0	.0	.0	1.4	3	1.4	.0	.0	2.7	2.3	92.8	221
TOT	4	2	1	0	0	0	0		7	5	2	2	38	20	848	918
PCT	.4	.2	.1	.0	.0	.0	.0	.8		.5	.2	.2	4.1	2.2	92.4	100.0

MARCH

PERIOD: (PRIMARY) 1950-1971  
(OVER-ALL) 1966-1971

AREA 0021 S. GULF OF OMAN  
23.1N 59.3E

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPO	HOUR (GMT)											
	0-3	4-10	11-21	22-33	34-47				00	03	06	09	12	15	18	21				
N	2.3	5.8	2.9	.3	.0	110	11.3	8.5	6.2	5.3	10.2	7.1	17.0	15.0	12.7	4.2				
NE	.8	3.3	1.0	.0	.0	49	5.0	7.5	1.5	2.3	4.7	14.3	8.0	9.0	4.6	6.3				
E	1.0	3.5	.4	.0	.0	52	5.4	6.6	3.2	2.5	3.7	7.1	9.2	2.0	5.0	2.1				
SE	1.5	7.4	2.7	.2	.0	118	12.1	7.8	12.8	2.5	10.0	9.5	12.6	8.0	15.4	6.3				
S	2.5	8.1	3.4	.5	.0	142	14.7	8.8	15.9	5.0	15.4	.0	13.5	12.0	14.3	27.1				
SW	1.3	5.5	2.9	.0	.0	96	9.9	8.9	10.0	17.5	16.1	4.8	6.2	12.0	5.8	20.8				
W	1.5	6.0	2.1	.0	.0	94	9.7	8.2	12.5	20.0	9.6	19.0	4.1	8.0	10.8	10.4				
NW	2.3	11.4	7.0	1.4	.0	216	22.1	10.2	23.2	33.8	21.4	33.3	21.0	26.0	20.4	18.8				
VAR	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0				
CALC	10.1	504	218	25	0	99	10.1	7.8	14.5	10.0	8.7	4.8	8.4	8.0	10.0	4.2				
TOT OBS	232	513	22.3	2.5	.0	979			234	20	208	21	237	25	210	27				
TOT PCT	23.7	51.3	22.3	2.5	.0	100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0				

TABLE 5A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPO	HOUR (GMT)											
	0-6	7-15	16-27	28-40	41+				00	03	06	09	12	15	18	21				
N	3.3	4.9	.9	.1	.0	110	11.3	8.5	6.2	5.3	9.8	16.8	11.9							
NE	2.2	2.7	.1	.0	.0	49	5.0	7.5	1.6	2.3	5.6	8.1	4.8							
E	2.8	2.6	.0	.0	.0	52	5.4	6.6	3.1	4.0	8.5	5.6	5.6							
SE	3.8	5.7	.5	.1	.0	118	12.1	7.8	12.0	9.9	12.1	14.4	14.4							
S	5.3	6.8	1.3	.1	.0	142	14.7	8.8	15.1	14.2	15.4	15.6	15.6							
SW	4.1	4.3	.2	.1	.0	96	9.9	8.9	10.6	15.1	6.8	7.4	7.4							
W	3.9	5.0	.7	.0	.0	94	9.7	8.2	13.2	10.5	4.5	10.8	10.8							
NW	8.0	10.7	3.0	.3	.0	216	22.1	10.2	24.0	22.5	21.5	20.2	20.2							
VAR	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0							
CALC	10.1	423	73	7	0	979			14.2	8.3	8.4	9.4	9.4							
TOT OBS	476	43.2	7.5	.7	.0	979			254	229	262	234	234							
TOT PCT	49.6	43.2	7.5	.7	.0	100.0			100.0	100.0	100.0	100.0	100.0							

PERIOD: (PRIMARY) 1950-1971  
(OVER-ALL) 1866-1971

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-23	34-47	48+				
0603	14.2	12.2	50.0	21.7	2.0	.0	.0	.0	7.5	100.0	254
0609	6.3	14.4	53.7	21.4	2.2	.0	.0	.0	7.8	100.0	229
1215	8.4	13.0	50.4	24.0	4.2	.0	.0	.0	6.5	100.0	262
1821	5.4	15.0	52.1	21.8	1.7	.0	.0	.0	7.5	100.0	234
TOT	99	133	504	218	23	0	0	0	7.8		979
PCT	10.1	13.6	51.5	22.3	2.6	.0	.0	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)  
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8-6	OBSCO	TOTAL OBS	MEAN CLOUD COVER	
							CLOUD	COVER
N	8.9	.7	1.0	.2	86	86	1.2	
NE	2.9	.7	.8	.0	35	35	1.6	
E	2.5	.5	.3	.3	51	51	1.5	
SE	6.0	1.7	1.9	.3	102	102	1.8	
S	1.5	1.4	1.6	.4	119	119	1.5	
SW	4.2	.6	.8	.2	79	79	1.1	
W	3.0	.9	.6	.2	77	77	1.1	
NW	1.0	2.0	1.3	1.0	178	178	1.3	
CALM	.0	.0	.0	.0	0	0	.0	
VAR	8.8	.5	1.0	.0	82	82	.9	
TOT OBS	631	73	175	21	800	800	1.3	
TOT PCT	78.9	9.1	9.4	2.6	100.0			

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT) NH >4/8  
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WIND DIR	000	149	150	299	300	599	600	999	1000	2000	3000	5000	6500	8000+	NH <5/8	ANY HGT	TOTAL OBS
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	10.7	86
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	4.0	35
E	.1	.1	.0	.0	.0	.0	.1	.0	.0	.0	.1	.0	.0	.0	.0	4.6	39
SE	.1	.0	.0	.0	.0	.0	.2	.0	.3	.2	.2	.3	.0	.0	.0	11.6	102
S	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1	.1	.0	.0	.1	.1	14.0	119
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	9.6	79
W	.0	.0	.0	.0	.0	.0	.1	.0	.1	.0	.1	.0	.0	.0	.0	9.4	77
NW	.0	.0	.0	.0	.0	.0	.2	.0	.1	.4	.4	.1	.0	.4	.0	20.3	178
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	0
TOT OBS	2	2	0	0	1	0	.4	.0	.9	.7	.6	.4	.0	.1	.1	9.9	800
TOT PCT	.3	.3	.0	.0	.1	.0	.5	.0	1.1	.9	1.0	.5	.4	.6	.6	94.6	100.0

PERIOD: PRIMARY: 1950-1971  
(OVER-ALL) 1966-1971

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TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE  
OF CEILING HEIGHT (NH > 4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)		OR		OR		OR		OR	
	>10	>5	>2	>1	>1/2	>1/4	>5000	>0	>0	>0
OR >6500	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
OR >5000	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
OR >3500	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
OR >2000	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
OR >1000	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
OR >600	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
OR >300	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
OR >150	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
OR >0	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
TOTAL	36	44	45	46	46	45	46	46	46	46

TOTAL NUMBER OF OBS: 841

PCT FREQ NH <5/8: 94.5

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	9	TOTAL
71.5	12.2	5.1	2.5	2.3	1.5	1.5	1.9	1.1	.2	878

PERIOD: (PRIMARY) 1950-1971  
(OVER-ALL) 1866-1971

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AREA 0021 S. GULF OF OMAN  
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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF  
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2												
PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1												
PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2												
PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
2<5												
PCP	.1	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	
NO PCP	.4	.1	.0	.2	.0	.0	.0	.8	.0	.0	.0	
TOT %	.5	.1	.0	.2	.0	.0	.0	.9	.0	.0	.0	
5<10												
PCP	.0	.0	.1	.0	.0	.0	.1	.0	.0	.0	.0	
NO PCP	1.1	.7	.2	1.3	.7	.0	1.3	3.7	.0	1.1	10.8	
TOT %	1.1	.7	.3	1.3	.7	.6	1.4	3.7	.0	1.1	11.0	
10+												
PCP	.0	.0	.0	.1	.0	.1	.0	.1	.0	.0	.0	
NO PCP	9.6	4.0	4.6	10.9	13.4	9.1	8.5	17.3	.0	9.4	86.8	
TOT %	9.6	4.0	4.6	11.0	13.4	9.2	8.5	17.4	.0	9.4	87.1	
TOT OBS	11.2	4.7	5.1	12.5	14.2	9.9	9.9	22.0	.0	10.6	100.0	870



PERIOD: (PRIMARY) 1950-1971  
(OVER-ALL) 1868-1971

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TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED  
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
2<5	0-3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1
	4-10	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3
5<10	0-3	.2	.1	.2	.2	.1	.2	.4	.2	.0	1.2	2.7
	4-10	.2	.5	.3	.8	.4	.5	1.0	1.6	.0	.0	5.3
	11-21	.5	.4	.2	.3	.3	.1	.0	1.1	.0	.0	3.0
	22+	.2	.0	.0	.1	.0	.0	.0	.3	.0	.0	.5
	TOT %	1.1	.9	.6	1.4	.9	.7	1.3	2.4	.0	1.2	11.5
10+	0-3	2.1	.8	.9	1.8	2.3	1.1	1.2	2.0	.0	9.0	21.1
	4-10	5.6	2.8	3.6	6.3	7.8	3.1	5.2	9.5	.0	.0	45.9
	11-21	1.9	.5	.2	2.3	3.0	2.9	2.1	5.0	.0	.0	17.9
	22+	.2	.0	.0	.1	.5	.1	.0	.8	.0	.0	1.6
	TOT %	9.8	4.1	4.7	10.5	13.6	9.2	8.5	17.2	.0	9.0	86.6
TOT OBS												938
TOT PCT		11.3	5.0	5.5	12.1	14.6	9.9	9.6	21.5	.0	10.1	100.0

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PERIOD: (PRIMARY) 1950-1971  
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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH > 4/8) AND  
OCCURRENCE OF NH < 5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	300 599	350 4999	500 6499	500 7999	6000+	TOTAL	NH < 5/8 ANY HGT	TOTAL OBS
00003	.0	.0	.0	.0	.5	1.4	.0	.0	.9	3.2	96.8
06009	.5	.0	.0	.0	.9	1.4	.0	.9	.5	6.6	93.4
12015	.5	.0	.0	.0	.0	1.4	.0	.5	.9	5.0	93.0
18021	.0	.0	.5	.5	1.4	1.9	.9	.0	.5	6.5	93.5
TOT PCT	2 .2	0 .0	1 .1	4 .5	9 1.0	8 .9	5 .6	3 .3	6 .7	46 5.3	822 94.7
											100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	< 1/2	1/2-1	1-2	2-5	5-10	10+	TOTAL OBS
00003	.0	.0	.0	1.4	8.9	89.7	214
06009	.0	.0	.0	.9	7.1	51.5	212
12015	.0	.0	.0	2.4	7.5	90.1	212
18021	.0	.0	.0	1.0	13.7	85.3	204
TOT PCT	0 .0	0 .0	0 .0	12 1.4	78 9.3	751 89.2	842 100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR  
CEILING HGT (FEET, NH > 4/8) BY HOUR

HOUR (GMT)	< 150 CEILING	< 600 CEILING	< 1000 CEILING	1000+ AND 5+	NH < 5/8 OBS	TOTAL OBS
00003	.0	.0	1.9	2.8	95.3	214
06009	.9	.9	2.4	5.2	92.5	212
12015	.5	.5	2.4	4.7	94.9	212
18021	.0	.5	2.0	5.9	92.2	204
TOT PCT	3 .4	4 .5	18 2.1	39 6.6	785 93.2	842 100.0

PERIOD: (PRIMARY) 1950-1971  
(OVER-ALL) 1866-1971

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23.1N 59.3E

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	.1	.1	.0	.0	.0	2	.3
85/89	.0	.0	.1	.3	1.1	.6	.0	.1	16	2.3
80/84	.0	.0	.3	1.9	5.2	5.5	2.6	.9	120	17.2
75/79	.0	.0	1.1	2.9	7.6	18.1	12.5	8.6	368	52.8
70/74	.0	.0	.6	2.3	4.6	7.3	6.0	4.9	179	25.7
65/69	.0	.0	.0	.0	.1	.1	.9	.4	12	1.7
TOTAL	0	0	15	53	152	220	153	104	697	100.0
PCT	.0	.0	2.2	7.6	21.8	31.6	22.0	14.9		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
90/94	.1	.0	.0	.0	.0	.0	.1	.0	.0	.0
85/89	.3	.1	.1	.4	.4	.1	.1	.6	.0	.1
80/84	2.2	1.0	1.3	2.2	2.2	2.0	1.3	2.7	.0	2.3
75/79	5.6	2.2	1.9	5.3	9.1	6.2	5.6	12.5	.0	4.4
70/74	2.6	1.5	1.0	2.9	4.1	2.0	2.3	5.5	.0	3.7
65/69	.4	.1	.4	.1	.1	.0	.1	.7	.0	.0
TOTAL	78	34	33	76	111	72	66	151	0	74
PCT	11.2	4.9	4.7	10.9	15.9	10.4	9.5	21.7	.0	10.6

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00203	65	81	79	74	72	68	67	74.5	240
06209	90	89	84	78	72	70	70	78.2	235
12215	89	88	84	78	73	70	68	78.6	263
18221	85	83	80	75	71	69	68	75.4	249
TOT	90	87	84	76	71	69	67	76.7	1007

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00203	.0	4.2	14.1	23.6	30.4	27.7	80	191
06209	.0	14.3	20.3	39.6	15.4	10.4	74	182
12215	.0	14.3	34.3	32.0	14.3	5.1	70	175
18221	.0	8.4	17.3	29.6	27.9	5.9	77	179
TOT	0	74	135	226	161	111	75	727

PERIOD: (PRIMARY) 1950-1971  
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TABLE 1\*

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)  
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	65	69	73	77	81	85	89	92	TOT	W FOG	WD FOG
14/16	.0	.0	.0	.0	.1	.0	.1	.5	2	.0	.3
11/13	.0	.0	.0	.0	.3	.5	.5	.5	10	.0	1.3
9/10	.0	.0	.0	.0	.1	.6	.1	.6	8	.0	1.0
7/8	.0	.0	.0	.3	2.0	.9	.0	.0	25	.0	3.2
6	.0	.0	.0	.0	1.1	.5	.0	.0	13	.0	1.7
5	.0	.0	.0	.8	2.0	.3	.0	.0	32	.0	4.1
4	.0	.1	.8	2.7	2.8	.0	.0	.0	50	.0	6.4
3	.0	.3	3.3	2.2	.1	.0	.0	.0	48	.0	6.1
2	.0	.5	7.1	1.3	.0	.0	.0	.0	80	.0	10.2
1	.0	1.4	7.1	.6	.1	.0	.0	.0	96	.0	12.2
0	.0	7.4	6.6	.1	.0	.0	.0	.0	115	.0	14.6
-1	.0	8.7	2.9	.1	.0	.0	.0	.0	98	.0	12.5
-2	.0	5.9	1.3	.0	.0	.0	.0	.0	71	.1	8.9
-3	.0	3.3	.6	.0	.0	.0	.0	.0	49	.0	5.9
-4	.3	2.5	.3	.0	.0	.0	.0	.0	47	.0	6.0
-5	.1	1.4	.6	.3	.0	.0	.0	.0	19	.1	2.3
-6	.1	.8	.0	.0	.0	.0	.0	.0	13	.0	1.7
-7/-8	.4	.5	.0	.0	.0	.0	.0	.0	12	.0	1.7
TOTAL	7	68	287	272	101	24	6	6	785	2	783
PCT	.9	11.2	36.6	34.6	12.9	3.1	.6	.6	100.0	.5	99.7

PERIOD: (PRIMARY)  
(OVER-ALL) 1963-1971

MARCH

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N										NE										PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	
<1	.8	2.4	.0	.0	.0	.0	3.2	.5	1.9	.5	.0	.0	.0	2.9	.5	1.9	.5	.0	.0	.0	2.9
1-2	.0	4.2	.0	.0	.0	.0	4.2	.1	1.1	.0	.0	.0	.0	1.2	.0	1.1	.0	.0	.0	.0	1.2
3-6	.0	1.1	2.2	.0	.0	.0	3.3	.1	.1	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.5	1.9	.5	.0	.0	2.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	1.1	.0	.0	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.8	.0	.0	.0	.8	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.5	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.8	8.2	6.0	1.0	.0	.0	16.1	.7	3.1	1.1	.0	.0	.0	5.0	.0	.0	.0	.0	.0	.0	.0

HGT	E										SE										PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	
<1	1.0	.8	.0	.0	.0	.0	1.8	1.4	1.6	.5	.0	.0	.0	3.5	.5	1.6	.5	.0	.0	.0	3.5
1-2	.4	2.3	.0	.0	.0	.0	2.7	.5	4.8	.0	.0	.0	.0	5.2	.0	4.8	.0	.0	.0	.0	5.2
3-6	.4	.5	.0	.0	.0	.0	.8	.0	1.0	.5	.0	.0	.0	1.4	.0	1.0	.5	.0	.0	.0	1.4
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.7	3.6	.0	.0	.0	.0	5.3	1.9	7.4	1.0	.0	.0	.0	10.3	.0	.0	.0	.0	.0	.0	.0

PERIOD: (PRIMARY)  
(OVERALL) 1963-1971

MARCH

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.9	.5	.0	.0	.0	2.3	.0	2.2	.0	.0	.0	.0	2.2
1-2	1.3	6.5	.0	.0	.0	.0	7.9	.6	5.0	1.6	.0	.0	.0	7.1
3-4	.0	1.9	.8	.0	.0	.0	2.8	.0	.5	2.5	.0	.0	.0	3.0
5-6	.0	.0	.5	.0	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.3	10.3	1.8	.0	.0	.0	13.4	.6	7.6	4.6	.0	.0	.0	12.6

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.4	.0	.0	.0	.0	.4	.0	2.9	.0	.0	.0	.0	.4
1-2	.0	6.5	.8	.0	.0	.0	7.5	.5	3.7	1.0	.0	.0	.0	5.2
3-4	.5	.5	3.0	.0	.0	.0	4.0	.0	3.1	2.4	.5	.0	.0	7.6
5-6	.0	.0	.5	.0	.0	.0	.5	.0	1.0	1.8	1.0	.0	.0	4.3
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	.0	.0	2.3
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	7.5	4.8	.0	.0	.0	12.8	2.1	10.7	9.2	2.4	.0	.0	24.4



APRIL

AREA UD21 S. GULF OF ONAN  
23.1N 99.2E

PERIOD (PRIMARY) 1950-1971  
(COVER-ALL) 1870-1971

TABLE 1  
PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	RAIN INCH	ORZL F4WR	PRECIPITATION TYPE			MAIL	PCT FREQ PCPN AT DB TIME	TOTAL PCPN OBS	THDR LTNG	OTHER WEATHER PHENOMENA				TOTAL OBS
			PRZG PCPN	SNOW PCPN	OTHER FRZN PCPN					FOG NO	SMOKE HAZE	DUST BLWG	NO SNOW	
N	.1	.0	.0	.0	.0	.0	.1	0	.1	.1	.9	.1	8.1	74
NE	.1	.0	.0	.0	.0	.0	.1	0	.0	.3	.3	.1	3.3	33
E	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.3	.0	4.2	35
SE	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.4	.3	11.9	98
S	.1	.0	.0	.0	.0	.0	.1	1	.0	.0	1.0	.4	15.4	131
SW	.1	.0	.0	.0	.0	.0	.1	1	.1	.1	.8	.4	12.4	110
W	.0	.1	.0	.0	.0	.0	.1	1	.1	.0	.4	.2	7.2	62
NW	.1	.0	.0	.0	.0	.0	.1	1	.0	.0	1.1	.5	14.6	128
VAR	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	0
CALM	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	1.0	.1	12.6	109
TOT OBS	4	1	0	0	0	0	.0	5	.4	.4	4.8	.17	70.5	733
TOT PCT	.5	.1	.0	.0	.0	.0	.6		.5	.5	6.1	2.2	90.0	100.0

TABLE 2

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (UTC)	RAIN INCH	ORZL F4WR	PRECIPITATION TYPE			MAIL	PCT FREQ PCPN AT DB TIME	TOTAL PCPN OBS	THDR LTNG	OTHER WEATHER PHENOMENA				TOTAL OBS
			PRZG PCPN	SNOW PCPN	OTHER FRZN PCPN					FOG NO	SMOKE HAZE	DUST BLWG	NO SNOW	
0000	.0	.0	.0	.0	.0	.0	.0	0	.9	.9	6.0	.9	91.3	218
0600	.0	.0	.0	.0	.0	.0	.0	0	.0	.5	7.0	2.0	89.8	205
1200	1.8	.0	.0	.0	.0	.0	1.8	4	.0	.5	6.4	3.7	87.7	219
1800	.0	.0	.0	.0	.0	.0	.5	1	1.5	.5	2.5	2.0	93.0	201
TOT	4	1	0	0	0	0	.6	5	.5	.5	4.8	1.8	76.2	843
PCT	.5	.1	.0	.0	.0	.0	.6		.6	.6	5.7	2.1	90.4	100.0



APRIL

PERIOD (PRIMARY) 1950-1971  
(OVERALL) 1870-1971AREA 0021 S. GULF OF OMAN  
23.1N 1.2E

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)					PCT FREQ	TOTAL OBS	48+	HOUR (GMT)							
	0-3	4-6	7-10	11-16	22-33	34-47			00	03	06	09	12	15	18	21
N	1.3	5.4	6.2	.1	.0	.0	83	.0	5.8	27.1	10.4	7.7	14.0	6.9	6.8	8.7
NE	.8	3.1	.3	.0	.0	.0	38	.0	3.4	.0	2.7	7.7	8.9	.0	2.4	4.3
E	1.4	2.8	.3	.0	.0	.0	39	.0	2.3	.0	3.6	5.8	8.9	2.6	2.4	.0
SE	2.4	8.6	1.7	.0	.0	.0	112	.0	10.0	16.7	10.8	3.8	15.0	17.2	15.0	17.4
S	2.1	10.7	4.0	.0	.0	.0	133	.0	18.6	16.7	12.2	26.9	15.3	19.0	22.0	20.7
SW	1.3	8.6	3.5	.0	.0	.0	118	.0	19.0	16.7	16.1	23.1	6.1	6.9	12.3	13.0
W	1.7	4.9	1.5	.3	.0	.0	74	.0	8.3	.0	8.9	12.5	5.0	12.1	9.3	25.0
NW	2.8	9.1	4.3	.1	.0	.0	144	.0	12.0	6.3	23.7	12.5	17.8	25.9	12.3	10.9
VAR	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	13.4	468	163	5	0	0	118	0	20.7	16.7	11.5	.0	8.9	3.4	17.5	.0
TOT OBS	244	53.2	18.5	.6	.0	.0	880	.0	208	12	192	26	213	29	177	23
TOT PCT	27.7	53.2	18.5	.6	.0	.0	100.0	.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					41--	TOTAL OBS	PCT FREQ	MEAN SPO	HOUR (GMT)							
	0-6	7-16	17-27	28-40	41--					00	03	06	09	12	15	18	21
N	4.3	4.3	.6	.0	.0	83	9.4	8.0	8.0	6.9	6.9	10.1	13.1	7.0	7.0	7.0	7.0
NE	2.3	2.1	.0	.0	.0	38	4.4	6.7	6.7	3.2	3.2	3.3	7.9	2.6	2.6	2.6	2.6
E	3.3	1.2	.0	.0	.0	39	4.4	5.4	5.4	2.2	2.2	3.9	0.9	2.1	2.1	2.1	2.1
SE	7.6	5.0	.1	.0	.0	112	12.7	6.6	6.6	10.3	10.3	10.0	13.3	15.3	15.3	15.3	15.3
S	7.2	8.8	1.3	.0	.0	153	17.4	8.6	8.6	18.5	14.0	14.0	15.7	21.9	21.9	21.9	21.9
SW	4.0	8.4	1.0	.0	.0	118	13.4	9.3	9.3	18.9	17.0	17.0	6.2	12.4	12.4	12.4	12.4
W	3.5	4.4	.5	.0	.0	74	8.4	8.2	8.2	17.8	9.3	9.3	5.9	11.1	11.1	11.1	11.1
NW	7.3	8.3	.8	.0	.0	144	16.4	8.2	8.2	11.7	22.4	22.4	18.8	12.1	12.1	12.1	12.1
VAR	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	13.4	376	38	0	0	118	13.4	.0	.0	20.5	10.1	10.1	8.3	15.5	15.5	15.5	15.5
TOT OBS	466	42.7	4.3	.0	.0	880	100.0	6.9	6.9	220	218	218	242	200	200	200	200
TOT PCT	53.0	42.7	4.3	.0	.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

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PERIOD: (PRIMARY) 1950-1971  
(OVER-ALL) 1870-1971

APRIL

AREA CO21 S. GULF OF OMAN  
23.1N 59.2E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
0000	20.5	12.3	48.6	17.7	.9	.0	.0	6.2	100.0	220
0600	10.1	15.1	56.0	17.9	.9	.0	.0	7.0	100.0	218
1200	8.3	16.9	53.3	21.5	.0	.0	.0	7.4	100.0	242
1800	15.5	12.5	55.0	16.5	.5	.0	.0	6.4	100.0	200
TOT	118	126	468	163	5	0	0	6.9		880
PCT	13.4	14.3	53.2	18.5	.6	.0	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)  
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8-8	TOTAL OBS	MEAN CLOUD COVER
N	7.4	1.0	.9	.4	68	1.5
NE	2.9	.6	.8	.1	30	2.0
E	3.2	.8	.5	.1	32	1.8
SE	9.1	1.8	1.5	.3	87	1.6
S	12.9	1.9	1.6	.5	115	1.3
SW	10.8	1.1	.5	.4	89	1.0
W	5.9	1.4	.7	.6	53	1.5
NW	12.1	1.0	1.4	1.4	117	1.7
VAR	.0	.0	.0	.0	0	.0
CALM	12.5	.2	.7	.7	102	1.1
TOT OBS	535	69	59	33	696	1.4
TOT PCT	75.9	9.9	8.5	4.7	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH > 478)  
AND OCCURRENCE OF NH < 578 BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8-8	TOTAL OBS	MEAN CLOUD COVER
N	7.4	1.0	.9	.4	68	1.5
NE	2.9	.6	.8	.1	30	2.0
E	3.2	.8	.5	.1	32	1.8
SE	9.1	1.8	1.5	.3	87	1.6
S	12.9	1.9	1.6	.5	115	1.3
SW	10.8	1.1	.5	.4	89	1.0
W	5.9	1.4	.7	.6	53	1.5
NW	12.1	1.0	1.4	1.4	117	1.7
VAR	.0	.0	.0	.0	0	.0
CALM	12.5	.2	.7	.7	102	1.1
TOT OBS	535	69	59	33	696	1.4
TOT PCT	75.9	9.9	8.5	4.7	100.0	

PERIOD: (PRIMARY) 1950-1971  
(OVER-ALL) 1970-1971

APRIL

AREA 0021 S. GULF OF OMAN  
23.1N 59.2E

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE  
OF CEILING HEIGHT (NH >4/8) AND VSBY (NN)

CEILING (FEET)	OR >10	OR >5	OR >2	OR >1	OR >1/2	OR >1/4	OR >50YD	OR >0
OR >6500	.4	.5	.5	.5	.5	.7	.7	.7
OR >5000	.5	.7	.7	.7	.7	.8	.8	.8
OR >3500	1.9	1.9	1.9	1.9	1.9	2.0	2.0	2.0
OR >2000	2.4	2.8	2.9	2.8	2.8	2.9	2.9	2.9
OR >1000	3.3	4.3	4.4	4.4	4.4	4.5	4.5	4.5
OR >600	3.7	4.7	4.8	4.8	4.8	4.9	4.9	4.9
OR >500	3.7	4.7	4.8	4.8	4.8	4.9	4.9	4.9
OR >150	3.7	4.7	4.8	4.8	4.8	4.9	4.9	4.9
OR >0	3.7	4.7	4.8	4.8	4.8	4.9	4.9	4.9
TOTAL	28	35	36	36	36	37	37	37

TOTAL NUMBER OF OBS 752

PCT FREQ NH <5/81 95.1

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	TOTAL
72.3	10.7	4.4	4.0	2.4	1.5	1.5	.9	2.1	.0
									791

PERIOD: (PRIMARY) 1950-1971  
(OVER-ALL) 1970-1971

APRIL

AREA 0021 S. GULF OF OMAN  
23.1N 59.2E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF  
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NO PCP	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.3	.3
TOT %	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.3	
PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NO PCP	.0	.1	.0	.0	.1	.1	.0	.1	.0	.0	.5	.5
TOT %	.0	.1	.0	.0	.1	.1	.0	.1	.0	.0	.5	
PCP	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1	.1
NO PCP	.1	.1	.0	.0	.1	.1	.0	.4	.0	.1	1.0	1.0
TOT %	.1	.1	.0	.0	.1	.3	.0	.4	.0	.1	1.2	
PCP	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1	.1
NO PCP	2.1	.5	.6	1.4	1.3	1.5	.9	1.6	.0	1.3	11.1	11.1
TOT %	2.1	.5	.6	1.4	1.3	1.5	.9	1.8	.0	1.3	11.3	
PCP	.1	.1	.0	.0	.1	.0	.1	.0	.0	.0	.4	.4
NO PCP	7.2	3.3	3.8	11.1	15.1	12.2	7.0	14.1	.0	12.5	86.4	86.4
TOT %	7.2	3.4	3.8	11.1	15.3	12.2	7.1	14.1	.0	12.5	86.8	
TOT OBS	9.5	4.2	4.5	12.6	16.8	14.1	8.0	16.4	.0	14.0	100.0	781
TOT PCT												

PERIOD: (PRIMARY) 1950-1971  
(OVER-ALL) 1970-1971

APRIL

ARE 0021 S. GULF OF OMAN  
23.1N 59.2E

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED  
WITH VARYING VALUES OF VISIBILITY

VSRY (NM)	SPO KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1
	4-10	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0
	TOT *	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.4	.1
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.1	.0	.1	.1	.0	.1	.0	.0	.3	.3
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT *	.0	.0	.1	.0	.1	.1	.0	.1	.0	.0	.3	.3
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.1	.0	.1	.2	.2
	4-10	.1	.1	.0	.0	.0	.2	.0	.0	.0	.0	.3	.3
	11-21	.0	.0	.0	.0	.1	.0	.0	.4	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT *	.1	.1	.0	.0	.1	.2	.0	.5	.0	.1	1.2	.5
5<10	0-3	.2	.0	.1	.1	.1	.1	.1	.0	.0	1.5	2.2	2.2
	4-10	1.6	.5	.4	1.0	.9	.9	.7	1.5	.0	.0	7.4	7.4
	11-21	.6	.2	.0	.3	.3	.5	.0	.4	.0	.0	2.2	2.2
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT *	2.4	.6	.5	1.4	1.3	1.4	.8	1.9	.0	1.5	11.8	11.8
10+	0-3	1.0	.6	1.3	2.0	2.0	1.2	1.7	2.8	.0	12.0	25.2	25.2
	4-10	3.8	2.5	2.3	7.5	9.3	7.7	3.8	7.7	.0	.0	44.7	44.7
	11-21	1.6	.3	.3	1.5	4.2	3.0	1.5	3.4	.0	.0	15.8	15.8
	22+	.1	.0	.0	.0	.0	.0	.4	.1	.0	.0	.6	.6
	TOT *	7.0	3.4	3.9	11.0	15.7	12.0	7.4	14.0	.0	12.0	86.3	86.3
TOT OBS		9.6	4.3	4.5	12.5	17.2	13.7	8.1	16.5	.0	13.6	100.0	853
TOT PCT													

APRIL

AREA 0021 S. GULF OF OMAN  
23.1N 59.2E

PERIOD (PRIMARY) 1950-1971  
(OVER-ALL) 1870-1971

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH > 4/8) AND  
OCCURRENCE OF NH < 5/8 BY HOUR

HOUR (GMT)	000	150	300	450	600	750	900	1050	1200	1350	1500	1650	1800	1950	2100	2250	2400	2550	2700	2850	3000	3150	3300	3450	3600	3750	3900	4050	4200	4350	4500	4650	4800	4950	5100	5250	5400	5550	5700	5850	6000	6150	6300	6450	6600	6750	6900	7050	7200	7350	7500	7650	7800	7950	8100	8250	8400	8550	8700	8850	9000	9150	9300	9450	9600	9750	9900	10050	10200	10350	10500	10650	10800	10950	11100	11250	11400	11550	11700	11850	12000	12150	12300	12450	12600	12750	12900	13050	13200	13350	13500	13650	13800	13950	14100	14250	14400	14550	14700	14850	15000	15150	15300	15450	15600	15750	15900	16050	16200	16350	16500	16650	16800	16950	17100	17250	17400	17550	17700	17850	18000	18150	18300	18450	18600	18750	18900	19050	19200	19350	19500	19650	19800	19950	20100	20250	20400	20550	20700	20850	21000	21150	21300	21450	21600	21750	21900	22050	22200	22350	22500	22650	22800	22950	23100	23250	23400	23550	23700	23850	24000	24150	24300	24450	24600	24750	24900	25050	25200	25350	25500	25650	25800	25950	26100	26250	26400	26550	26700	26850	27000	27150	27300	27450	27600	27750	27900	28050	28200	28350	28500	28650	28800	28950	29100	29250	29400	29550	29700	29850	30000	30150	30300	30450	30600	30750	30900	31050	31200	31350	31500	31650	31800	31950	32100	32250	32400	32550	32700	32850	33000	33150	33300	33450	33600	33750	33900	34050	34200	34350	34500	34650	34800	34950	35100	35250	35400	35550	35700	35850	36000	36150	36300	36450	36600	36750	36900	37050	37200	37350	37500	37650	37800	37950	38100	38250	38400	38550	38700	38850	39000	39150	39300	39450	39600	39750	39900	40050	40200	40350	40500	40650	40800	40950	41100	41250	41400	41550	41700	41850	42000	42150	42300	42450	42600	42750	42900	43050	43200	43350	43500	43650	43800	43950	44100	44250	44400	44550	44700	44850	45000	45150	45300	45450	45600	45750	45900	46050	46200	46350	46500	46650	46800	46950	47100	47250	47400	47550	47700	47850	48000	48150	48300	48450	48600	48750	48900	49050	49200	49350	49500	49650	49800	49950	50100	50250	50400	50550	50700	50850	51000	51150	51300	51450	51600	51750	51900	52050	52200	52350	52500	52650	52800	52950	53100	53250	53400	53550	53700	53850	54000	54150	54300	54450	54600	54750	54900	55050	55200	55350	55500	55650	55800	55950	56100	56250	56400	56550	56700	56850	57000	57150	57300	57450	57600	57750	57900	58050	58200	58350	58500	58650	58800	58950	59100	59250	59400	59550	59700	59850	60000	60150	60300	60450	60600	60750	60900	61050	61200	61350	61500	61650	61800	61950	62100	62250	62400	62550	62700	62850	63000	63150	63300	63450	63600	63750	63900	64050	64200	64350	64500	64650	64800	64950	65100	65250	65400	65550	65700	65850	66000	66150	66300	66450	66600	66750	66900	67050	67200	67350	67500	67650	67800	67950	68100	68250	68400	68550	68700	68850	69000	69150	69300	69450	69600	69750	69900	70050	70200	70350	70500	70650	70800	70950	71100	71250	71400	71550	71700	71850	72000	72150	72300	72450	72600	72750	72900	73050	73200	73350	73500	73650	73800	73950	74100	74250	74400	74550	74700	74850	75000	75150	75300	75450	75600	75750	75900	76050	76200	76350	76500	76650	76800	76950	77100	77250	77400	77550	77700	77850	78000	78150	78300	78450	78600	78750	78900	79050	79200	79350	79500	79650	79800	79950	80100	80250	80400	80550	80700	80850	81000	81150	81300	81450	81600	81750	81900	82050	82200	82350	82500	82650	82800	82950	83100	83250	83400	83550	83700	83850	84000	84150	84300	84450	84600	84750	84900	85050	85200	85350	85500	85650	85800	85950	86100	86250	86400	86550	86700	86850	87000	87150	87300	87450	87600	87750	87900	88050	88200	88350	88500	88650	88800	88950	89100	89250	89400	89550	89700	89850	90000	90150	90300	90450	90600	90750	90900	91050	91200	91350	91500	91650	91800	91950	92100	92250	92400	92550	92700	92850	93000	93150	93300	93450	93600	93750	93900	94050	94200	94350	94500	94650	94800	94950	95100	95250	95400	95550	95700	95850	96000	96150	96300	96450	96600	96750	96900	97050	97200	97350	97500	97650	97800	97950	98100	98250	98400	98550	98700	98850	99000	99150	99300	99450	99600	99750	99900	100050	100200	100350	100500	100650	100800	100950	101100	101250	101400	101550	101700	101850	102000	102150	102300	102450	102600	102750	102900	103050	103200	103350	103500	103650	103800	103950	104100	104250	104400	104550	104700	104850	105000	105150	105300	105450	105600	105750	105900	106050	106200	106350	106500	106650	106800	106950	107100	107250	107400	107550	107700	107850	108000	108150	108300	108450	108600	108750	108900	109050	109200	109350	109500	109650	109800	109950	110100	110250	110400	110550	110700	110850	111000	111150	111300	111450	111600	111750	111900	112050	112200	112350	112500	112650	112800	112950	113100	113250	113400	113550	113700	113850	114000	114150	114300	114450	114600	114750	114900	115050	115200	115350	115500	115650	115800	115950	116100	116250	116400	116550	116700	116850	117000	117150	117300	117450	117600	117750	117900	118050	118200	118350	118500	118650	118800	118950	119100	119250	119400	119550	119700	119850	120000	120150	120300	120450	120600	120750	120900	121050	121200	121350	121500	121650	121800	121950	122100	122250	122400	122550	122700	122850	123000	123150	123300	123450	123600	123750	123900	124050	124200	124350	124500	124650	124800	124950	125100	125250	125400	125550	125700	125850	126000	126150	126300	126450	126600	126750	126900	127050	127200	127350	127500	127650	127800	127950	128100	128250	128400	128550	128700	128850	129000	129150	129300	129450	129600	129750	129900	130050	130200	130350	130500	130650	130800	130950	131100	131250	131400	131550	131700	131850	132000	132150	132300	132450	132600	132750	132900	133050	133200	133350	133500	133650	133800	133950	134100	134250	134400	134550	134700	134850	135000	135150	135300	135450	135600	135750	135900	136050	136200	136350	136500	136650	136800	136950	137100	137250	137400	137550	137700	137850	138000	138150	138300	138450	138600	138750	138900	139050	139200	139350	139500	139650	139800	139950	140100	140250	140400	140550	140700	140850	141000	141150	141300	141450	141600	141750	141900	142050	142200	142350	142500	142650	142800	142950	143100	143250	143400	143550	143700	143850	144000	144150	144300	144450	144600	144750	144900	145050	145200	145350	145500	145650	145800	145950	146100	146250	146400	146550	146700	146850	147000	147150	147300	147450	147600	147750	147900	148050	148200	148350	148500	148650	148800	148950	149100	149250	149400	149550	149700	149850	150000	150150	150300	150450	150600	150750	150900	151050	151200	151350	151500	151650	151800	151950	152100	152250	152400	152550	152700	152850	153000	153150	153300	153450	153600	153750	153900	154050	154200	154350	154500	154650	154800	154950	155100	155250	155400	155550	155700	155850	156000	156150	156300	156450	156600	156750	156900	157050	157200	157350	157500	157650	157800	157950	158100	158250	158400	158550	158700	158850	159000	159150	159300	159450	159600	159750	159900	160050	160200	160350	160500	160650	160800	160950	161100	161250	161400	161550	161700	161850	162000	162150	162300	162450	162600	162750	162900	163050	163200	163350	163500	163650	163800	163950	164100	164250	164400	164550	164700	164850	165000	165150	165300	165450	165600	165750	165900	166050	166200	166350	166500	166650	166800	166950	167100	167250	167400	167550	167700	167850	168000	168150	168300	168450	168600	168750	168900	169050	169200	169350	169500	169650	169800	169950	170100	170250	170400	170550	170700	170850	171000	171150	171300	171450	171600	171750	171900	172050	172200	172350	172500	172650	172800	172950	173100	173250	173400	173550	173700	173850	174000	174150	174300	174450	174600	1747
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APRIL

PERIOD: (PRIMARY) 1950-1971  
(OVER-ALL) 1870-1971

AREA 0021 S. GULF OF OMAN  
23.1N 59.2E

TABLE 13

TEMP F	PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP										TOTAL OBS	PCT FREQ
	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100				
95/99	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	1	.2
90/94	.0	.0	.6	.5	1.0	.0	.0	.0	.0	.0	17	2.7
85/89	.0	.0	.8	1.6	4.3	5.6	2.7	.0	.0	.0	97	15.6
80/84	.0	.2	1.4	2.1	8.2	13.2	11.6	5.6	.0	.0	263	42.2
75/79	.0	.0	.5	2.4	3.5	9.3	12.5	6.9	.0	.0	219	35.2
70/74	.0	.0	.0	.2	1.1	1.6	.8	.3	.0	.0	25	4.0
65/69	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	1	.2
TOTAL	0	1	21	43	113	190	172	83	.0	.0	623	100.0
PCT	.0	.2	3.4	6.9	18.1	30.5	27.6	13.3				

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP											CALM
	N	NE	E	SE	S	SW	W	NW	VAR		
95/99	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0
90/94	.0	.2	.3	.6	.4	.5	.2	.6	.0	.0	.0
85/89	1.5	.8	.9	1.9	2.4	1.4	.7	2.4	.0	.0	3.2
80/84	3.1	1.4	2.0	5.9	8.3	6.3	3.0	7.6	.0	.0	4.5
75/79	3.0	1.2	1.0	5.3	5.6	5.1	2.5	4.8	.0	.0	5.5
70/74	.2	.5	.0	.5	.2	.0	.6	1.0	.0	.0	.5
65/69	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOTAL	52	24	26	87	106	87	50	102	.0	.0	85
PCT	8.3	3.9	4.3	14.1	17.1	14.0	8.1	16.5	.0	.0	13.6

TABLE 15

HOUR (GMT)	MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR										TOTAL OBS
	MAX	99%	95%	50%	5%	1%	MIN	MEAN			
00003	90	86	84	78	74	72	71	78.5			241
06009	92	91	89	82	77	74	71	82.3			225
12015	95	93	90	82	75	73	71	82.9			245
18021	88	87	84	79	74	70	69	76.1			219
TOT	95	91	88	80	75	71	69	80.7			930

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR											TOTAL OBS
	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN		
00003	.0	.0	.3	3.3	11.0	30.6	20.5	25.4	81		173
06009	.0	.0	13.8	22.2	31.4	26.3	6.6	73	73		167
12015	.0	.0	15.9	23.7	33.9	19.6	5.4	72	72		177
18021	.0	.0	5.2	15.4	26.5	35.5	17.4	76	76		155
TOT	0	0	67	122	206	185	92	76	76		672

PERIOD: (PRIMARY) 1950-1971  
(OVER-ALL) 1870-1971

APRIL

AREA 0021 S. GULF OF OMAN  
23.1N 59.2E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)  
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	69	72	76	73	77	81	82	88	89	93	TOT	M	WD
												FOG	FOG
14/15	.0	.0	.0	.0	.0	.0	.0	.0	.3	.3	4	.0	.6
11/12	.0	.0	.0	.0	.0	.0	.1	.4	.4	.1	14	.0	1.9
9/10	.0	.0	.0	.0	.0	.4	3.2	1.1	1.1	.1	36	.0	3.0
7/8	.0	.0	.0	.0	.1	1.2	2.3	2.0	1.0	.0	27	.0	3.7
5	.0	.0	.0	.0	.6	2.3	1.7	.1	.0	.0	43	.0	5.9
4	.0	.0	.1	.0	1.0	3.7	1.9	.0	.0	.0	45	.0	6.2
3	.0	.0	.3	.3	1.4	5.8	1.0	.0	.0	.0	51	.0	7.0
2	.0	.0	.4	.4	4.3	6.1	.1	.0	.0	.0	79	.0	10.6
1	.0	.0	.5	.5	7.6	4.7	.1	.0	.0	.0	94	.1	12.6
0	.0	.0	1.4	1.4	9.0	2.8	.0	.0	.0	.0	95	.1	12.9
-1	.0	.0	2.8	2.8	3.9	1.2	.0	.0	.0	.0	57	.1	7.7
-2	.0	.0	1.4	1.4	3.0	.4	.0	.0	.0	.0	35	.0	4.8
-3	.4	.4	1.2	1.2	2.6	.0	.0	.0	.0	.0	31	.1	4.1
-4	.4	.4	.7	.7	1.1	.1	.0	.0	.0	.0	15	.0	2.1
-5	.1	.1	.4	.4	.6	.0	.0	.0	.0	.0	8	.0	1.1
-6	.1	.1	.6	.6	.4	.0	.0	.0	.0	.0	8	.1	1.0
-7/-8	.3	.3	.0	.0	.1	.0	.0	.0	.0	.0	3	.0	.4
-9/-10	.3	.3	.0	.0	.1	.0	.0	.0	.0	.0	3	.0	.4
TOTAL	10	69	285	233	100	25					726	5	721
PCT	1.4	9.5	35.3	32.1	13.6	3.4					100.0	.7	99.3



PERIOD: (PRIMARY) 1963-1971  
 APRIL  
 TABLE 18  
 AREA 0021 S. GULF OF OMAN  
 23.1N 59.2E

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
4-0T	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
41	1.5	2.0	.0	.0	.0	.0	3.5	.3	2.0	.0	.0	.0	.0	2.3
1-2	.6	3.7	.0	.0	.0	.0	4.3	.0	1.8	.0	.0	.0	.0	.0
3-4	.0	.5	1.9	.0	.0	.0	2.3	.0	.6	.0	.0	.0	.0	.6
5-6	.0	.0	1.1	.0	.0	.0	1.1	.0	.0	.2	.0	.0	.0	.2
7	.0	.0	.6	.0	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.2	6.2	3.5	.0	.0	.0	11.9	.3	4.5	.2	.0	.0	.0	4.9

	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
41	1.1	1.1	.0	.0	.0	.0	1.1	.6	1.2	.6	.0	.0	.0	2.5
1-2	.0	.6	.0	.0	.0	.0	.6	.0	4.2	1.9	.0	.0	.0	6.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	1.5	.0	.0	.0	.0	2.2
5-6	.0	.0	.6	.0	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.5	.0	.0	.0	.5	.0	.0	.2	.0	.0	.0	.2
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.7	1.1	.0	.0	.0	2.8	.6	6.9	3.2	.0	.0	.0	10.8

APRIL  
TABLE 18  
AREA 0021 S. GULF OF OMAN  
23.1N 59.2E

PERIOD: (PRIMARY)  
(OVER-ALL) 1963-1971

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.2	2.3	.0	.0	.0	.0	3.5	.0	1.5	.6	.0	.0	.0	2.2
1-2	1.1	6.9	.6	.0	.0	.0	5.5	.3	4.3	.0	.0	.0	.0	4.6
3-4	.0	3.2	2.8	.0	.0	.0	6.0	.0	2.2	2.2	.0	.0	.0	4.3
5-6	.0	.0	.6	.0	.0	.0	.6	.0	.6	1.2	.0	.0	.0	1.9
7	.0	.0	.6	.0	.0	.0	.6	.0	.0	.6	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.3	12.5	4.6	.0	.0	.0	19.4	.3	8.6	4.6	.0	.0	.0	13.6

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.7	1.1	.0	.0	.0	.0	2.8	2.6	2.4	1.2	.0	.0	.0	6.8
1-2	.5	3.9	2.2	.0	.0	.0	6.5	.0	6.6	1.9	.0	.0	.0	7.6
3-4	.0	2.0	.0	.0	.0	.0	2.0	.0	3.5	4.3	.0	.0	.0	7.9
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.6	2.5	.0	.0	.0	3.1
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.2	6.9	2.2	.0	.0	.0	11.3	2.6	13.7	9.0	.0	.0	.0	25.3

PERIOD: (PRIMAR/) 1963-1971  
(OVER-ALL)

APRIL

AREA 0021 S. GULF OF OMAN  
23.1N 59.2E

TABLE 18 (CONT)

WIND SPEED (KTS) VS SEA HEIGHT (FT)								TOT OBS
HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	22.2	12.4	2.1	.0	.0	.0	36.6	
1-2	.6	26.8	4.6	.0	.0	.0	34.0	
3-4	.0	11.3	9.8	.0	.0	.0	21.1	
5-6	.0	1.0	5.2	.0	.0	.0	6.2	
7	.0	.0	1.5	.0	.0	.0	1.5	
8-9	.0	.0	.5	.0	.0	.0	.5	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	24.7	51.5	23.7	.0	.0	.0	100.0	194

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD {SEC}	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+ TOTAL	MEAN HGT	
<1	12.3	24.7	16.4	3.0	.3	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	343	2
1-2	.2	1.3	2.3	2.5	.3	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	41	4
3-4	.0	.3	.8	.3	.3	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	12	4
5-6	.0	.5	.0	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	4
7	.0	.0	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	5
8-9	.0	.0	.0	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	199	1
10-11	.0	.0	.0	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	604	2
12-13	.0	.0	.0	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	
TOTAL	25.0	5.3	1.8	.5	.8	.5	1	0	0	0	0	0	0	0	0	0	0	0	0		
PCT	37.4	32.1	21.5	6.6	1.3	.8	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		

PERIOD: (PRIMARY) 1951-1971  
(OVER-ALL) 1911-1971

N.Y

AREA 0021 S. GULF OF OMAN  
23.1N 59.3E

TABLE 1

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	RAIN SHR	RAIN SHR	DEZL	PRECIPITATION TYPE				MAIL	PCT FREQ PCPN AT 06 TIME	TOTAL PCPN OBS	THDR LTNG	OTHER WEATHER PHENOMENA						TOTAL OBS
				ALL	FRZG	SNOW	OTHER					FOG	SMOKE	HAZE	BLWG	DUST	NO	
				PCPN	PCPN	PCPN	PCPN	PCPN				PCPN	WD	NSE	BLWG	SNOW	WEA	
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.8	.2	4.4	4.6	46
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.1	.0	.6	.4	.4	1.7	1.7	20
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.4	.1	4.9	4.9	45
SE	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	1.1	.3	13.0	13.0	120
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	2.1	.3	18.7	18.7	177
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	1.4	.5	18.1	18.1	168
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	1.1	.4	8.0	8.0	71
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.4	.8	10.8	10.8	101
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.1	.0	.8	.4	.4	9.1	9.1	87
TOT OBS	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.2	.4	.65	.24	.24	742	742	837
TOT PCT	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.2	.5	7.8	2.9	2.9	88.6	88.6	100.0

TABLE 2

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	RAIN SHR	RAIN SHR	DEZL	PRECIPITATION TYPE				MAIL	PCT FREQ PCPN AT 06 TIME	TOTAL PCPN OBS	THDR LTNG	OTHER WEATHER PHENOMENA						TOTAL OBS
				ALL	FRZG	SNOW	OTHER					FOG	SMOKE	HAZE	BLWG	DUST	NO	
				PCPN	PCPN	PCPN	PCPN	PCPN				PCPN	WD	NSE	BLWG	SNOW	WEA	
0000	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.5	.5	.6	.8	1.8	90.5	90.5	222
0600	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.2	3.2	88.6	88.6	219
1200	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	11.4	5.5	82.2	82.2	219
1800	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.5	.5	.5	5.0	.5	99.6	99.6	219
TOT	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.2	.4	.69	.24	.24	780	780	879
PCT	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.2	.5	7.6	2.7	2.7	88.7	88.7	100.0

MAY

PERIOD: (PRIMARY) 1951-1971  
(OVER-ALL) 1911-1971AREA 0021 S. GULF OF OMAN  
23.1N 59.3E

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+				00	03	06	09	12	15	18	21
N	1.4	3.4	.2	.0	.0	.0	47	5.2	5.8	4.5	.0	5.5	9.6	8.4	.0	2.7	.0
NE	1.8	1.3	.2	.0	.0	.0	21	2.4	5.9	.6	7.7	2.9	13.5	2.7	.0	2.0	.0
E	1.0	3.6	.5	.0	.0	.0	46	5.1	6.1	3.2	.0	5.7	1.9	8.1	7.7	4.0	.0
SE	2.5	9.5	2.2	.1	.0	.0	130	14.3	7.0	12.0	3.8	10.0	17.3	17.4	15.4	18.3	8.3
S	3.1	9.8	7.8	.5	.0	.0	193	21.2	9.8	21.9	11.5	21.1	16.3	19.0	23.1	23.0	31.5
SW	1.3	11.3	8.0	.5	.0	.0	191	21.0	10.1	26.2	30.8	20.9	14.4	14.4	26.9	21.7	41.7
W	1.9	4.6	2.0	.3	.0	.0	80	8.8	8.1	10.9	11.5	9.4	7.7	5.8	14.2	8.3	12.5
NW	1.7	6.5	3.3	.3	.0	.0	107	11.7	8.9	7.3	34.6	16.2	11.5	15.6	.0	7.8	.0
VAR	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	10.2	45.6	22.2	1.4	0	0	93	10.2	7.7	13.4	.0	8.3	7.7	8.6	7.7	12.2	.0
TOT OBS	219	24.4	24.4	1.5	.0	.0	511	100.0	7.7	21.5	13	20.5	26	221	13	20.5	12
TOT PCT	24.0	50.1	.0	.0	.0	.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)						4+ OBS	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)												
	0-6	7-16	17-27	28-40	41+	00					03	06	09	12	15	18	21						
N	3.4	1.8	.0	.0	.0	.0	47	5.2	5.8	4.3	.0	6.0	7.9	2.5	.0	.0	.0	.0	.0	.0	.0	.0	.0
NE	1.7	.7	.0	.0	.0	.0	21	2.4	5.9	1.0	.0	4.1	2.6	1.8	.0	.0	.0	.0	.0	.0	.0	.0	.0
E	3.3	1.7	.1	.0	.0	.0	46	5.1	6.1	3.1	.0	5.3	6.1	3.8	.0	.0	.0	.0	.0	.0	.0	.0	.0
SE	7.4	6.4	.3	.0	.0	.0	130	14.3	7.0	11.6	10.8	10.8	17.3	17.7	.0	.0	.0	.0	.0	.0	.0	.0	.0
S	6.1	12.0	3.3	.0	.0	.0	193	21.2	9.8	21.3	20.6	19.2	23.8	23.8	.0	.0	.0	.0	.0	.0	.0	.0	.0
SW	6.5	11.6	2.3	.0	.0	.0	191	21.0	10.1	26.4	20.1	15.1	22.8	22.8	.0	.0	.0	.0	.0	.0	.0	.0	.0
W	4.1	4.2	.3	.0	.0	.0	80	8.8	8.1	10.9	9.2	6.5	8.5	8.5	.0	.0	.0	.0	.0	.0	.0	.0	.0
NW	4.4	6.2	1.3	.0	.0	.0	107	11.7	8.9	8.8	15.7	14.7	7.4	7.4	.0	.0	.0	.0	.0	.0	.0	.0	.0
VAR	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	10.2	.0	.0	.0	.0	.0	93	10.2	.0	12.7	8.2	8.5	11.5	11.5	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT OBS	530	409	7.1	0	0	0	911	100.0	7.7	229	231	234	217	217	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	47.2	44.9	7.4	.0	.0	.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	.0	.0	.0	.0	.0	.0	.0	.0	.0

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				48+	PCT		TOTAL OBS
				11-21	22-33	34-47	48+		MEAN	FREQ	
0000	12.7	11.4	50.2	24.9	.9	.0	.0	.0	7.6	100.0	229
0600	8.2	13.9	49.8	26.8	1.3	.0	.0	.0	8.0	100.0	231
1200	8.5	15.8	49.6	24.4	1.7	.0	.0	.0	7.9	100.0	234
1800	11.5	14.3	50.7	21.2	2.3	.0	.0	.0	7.4	100.0	217
TOT	93	126	456	222	14	0	0	0	7.7	100.0	911
PCT	10.2	13.8	50.1	24.4	1.5	.0	.0	.0			

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)  
BY WIND DIRECTION

WIND DIR	PCT FREQ						TOTAL OBS	MEAN CLOUD COVER
	0-2	3-4	5-7	8-6	7-5	6-4		
N	4.3	.1	.1	.1	.1	.1	39	.6
NE	1.8	.3	.3	.0	.0	.0	18	1.4
E	4.0	.3	.3	.1	.1	.1	38	1.1
SE	12.5	1.3	.6	.0	.0	.0	111	.6
S	19.4	1.1	.7	.2	.2	.2	165	.7
SW	18.3	.2	1.2	.4	.4	.4	156	.7
W	8.1	.3	.1	.1	.1	.1	56	.4
NW	10.9	.7	.3	.4	.4	.4	91	.5
VAR	0.0	.0	.0	.0	.0	.0	0	.0
CALM	10.7	.1	.3	.0	.0	.0	86	.2
TOT OBS	700	36	30	8	8	8	774	.6
TOT PCT	90.4	4.3	3.9	1.0	1.0	1.0	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT) NH >4/8)  
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WIND DIR	PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT) NH >4/8)						AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION						TOTAL OBS
	000	150	300	599	600	999	1000	2000	3500	5000	6500	8000+	
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	39
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	18
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	38
SE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	111
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	165
SW	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	156
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	56
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	91
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	86
TOT OBS	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	774
TOT PCT	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0

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TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE  
OF CEILING HEIGHT (NH >478) AND VS8V (NH)

CEILING (FEET)	OR >10	OR >5	OR >2	OR >1	OR >1/2	OR >1/4	OR >20V0	OR >0
OR >5000	.2	.2	.2	.2	.2	.2	.2	.2
OR >5000	.4	.4	.4	.4	.4	.4	.4	.4
OR >3500	.4	.4	.4	.4	.4	.4	.4	.4
OR >2000	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
OR >1000	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
OR >600	1.7	1.7	1.8	1.8	1.8	1.8	1.8	1.8
OR >300	1.7	1.7	1.8	1.8	1.8	1.8	1.8	1.8
OR >150	1.7	1.8	2.0	2.0	2.0	2.0	2.0	2.0
OR >0	1.7	2.0	2.2	2.2	2.2	2.2	2.2	2.2
TOTAL	14	14	18	18	18	18	18	18

TOTAL NUMBER OF OBS: 816

PCT FREQ NH <5781 97.8

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	9	TOTAL
	0	1	2	3	4	5	6	7	8	9	OBS
85.3	0.2	1.0	1.1	1.2	1.2	1.7	1.4	1.6	1.2	1.2	838

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TABLE B

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF  
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
<1/2 NO PCP	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1
TOT %	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1
1/2<1 NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1<2 NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT %	.2	.0	.1	.1	.1	.0	.0	.0	.0	.0	.0	.6
2<5 NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT %	.1	.0	.1	.4	.1	.2	.0	.2	.0	.0	.0	1.2
5<10 NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT %	.3	.7	1.0	2.8	4.1	3.6	1.0	1.9	.0	1.8	17.3	17.3
10+ NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT %	4.7	1.7	4.2	10.9	16.7	16.3	7.6	10.1	.0	8.6	80.8	80.8
TOT OBS	5.5	2.4	5.4	14.3	21.2	20.1	8.5	12.1	.0	10.4	100.0	837



PERIOD: (PRIMARY) 1951-1971  
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TABLE 3

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED  
WITH VARYING VALUES OF VISIBILITY

VSRY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	.1
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT *	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	.1
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1<2	0-3	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.1	.1
	4-10	.2	.0	.0	.1	.1	.0	.0	.0	.0	.0	.4	.4
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT *	.2	.0	.1	.1	.1	.0	.0	.0	.0	.0	.6	.6
2<3	0-3	.0	.0	.1	.1	.0	.0	.1	.0	.0	.0	.3	.3
	4-10	.0	.0	.0	.2	.2	.2	.0	.1	.0	.0	.3	.3
	11-21	.1	.0	.0	.1	.0	.0	.0	.1	.0	.0	.1	.1
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT *	.1	.0	.1	.4	.2	.4	.1	.2	.0	.0	1.5	1.5
5<10	0-3	.3	.2	.1	.7	.5	.2	.4	.1	.0	1.8	4.3	4.3
	4-10	.1	.3	.7	1.7	2.0	1.9	.4	.6	.0	.0	7.7	7.7
	11-21	.0	.1	.1	.5	1.4	1.4	.2	1.0	.0	.0	4.6	4.6
	22+	.0	.0	.0	.0	.1	.2	.0	.0	.0	.0	.3	.3
	TOT *	.4	.7	.9	2.8	4.0	3.7	1.0	1.7	.0	1.8	17.0	17.0
10+	0-3	1.1	.6	.7	1.8	2.7	1.2	1.4	1.5	.0	8.5	19.5	19.5
	4-10	3.1	1.0	3.0	7.5	7.5	9.2	4.1	5.7	.0	.0	41.0	41.0
	11-21	.3	.1	.4	1.7	6.4	6.2	1.7	2.2	.0	.0	19.0	19.0
	22+	.0	.0	.0	.1	.4	.2	.3	.3	.0	.0	1.2	1.2
	TOT *	4.5	1.7	4.0	11.0	16.9	16.8	7.5	9.8	.0	8.5	80.8	80.8
TOT OBS													904
TOT PCT		5.3	2.4	5.1	14.3	21.3	20.9	8.6	11.7	.0	10.3	100.0	

## MAY

PERIOD: (PRIMARY) 1951-1971  
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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND  
OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000	150	300	450	600	750	900	1050	1200	1350	1500	1650	1800	1950	2100	2250	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	.0	.0	.0	.0	1.0	.5	.5	.5	.5	.5	.5	.5	.5	.5	.5	.5	2.4	97.6	207
06009	.5	.0	.0	.0	.5	.5	.5	.5	.5	.5	.5	.5	.5	.5	.5	.5	1.9	98.1	207
12015	.5	.0	.0	.0	.0	.5	.0	.5	.0	.5	.0	.5	.0	.5	.0	.5	1.4	98.6	210
18021	.0	.5	.0	.0	.0	.5	1.4	.0	.5	.0	.5	.0	.5	.0	.5	.0	2.8	97.2	214
TOT	2	1	0	3	4	5	5	4	5	4	5	5	5	4	5	0	18	820	838
PCT	.2	.1	.0	.4	.5	.6	.5	.5	.6	.5	.6	.5	.6	.5	.6	.0	2.1	97.9	100.0

TABLE 11

PERCENT FREQUENCY VS8V (NH) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<3	3<4	4<5	5<6	6<7	7<8	8<9	9<10	10+	TOTAL OBS
00003	.5	.0	.0	1.5	14.3	83.7	203						203
06009	.0	.0	.0	1.0	19.3	79.7	202						202
12015	.0	.0	.5	1.5	15.9	82.1	201						201
18021	.0	.0	.0	1.0	16.2	82.9	210						210
TOT	1	0	1	12	134	670	816						816
PCT	.1	.0	.1	1.2	16.4	82.1	100.0						100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VS8V (NH) AND/OR  
CEILING HGT (FEET, NH >4/8) BY HOUR

HOUR (GMT)	<150 450Y0	<600 1000 15	<1000 1500 25	>000+ AND 5+	NH <578 AND 5+	TOTAL OBS
00003	.0	.5	2.5	1.5	96.1	203
06009	.5	.5	1.5	1.0	97.5	202
12015	.5	.5	2.5	1.0	96.5	201
18021	.0	.5	1.4	2.4	96.2	210
TOT	2	4	16	12	788	816
PCT	.2	.5	2.0	1.5	96.6	100.0

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TABLE 13

TEMP F	PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP										TOTAL OBS	PCT FREQ
	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100				
45/99	.0	.0	.0	.1	.6	.1	.1	.0	.0	.0	7	1.0
50/94	.0	.1	1.0	3.2	5.7	5.3	1.2	1.0			120	17.5
55/89	.0	.0	.4	2.3	6.7	14.6	13.7	4.2			288	42.1
60/84	.0	.0	.0	.3	3.9	7.3	16.2	8.9			251	36.7
65/79	.0	.0	.0	.0	.0	.7	1.2	.7			18	2.6
TOTAL	.0	.1	1.1	4.4	11.3	19.2	22.1	10.2			684	100.0
PCT	.0	.1	1.6	6.4	16.5	28.1	32.3	14.9				

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP										N	NE	E	SE	S	SW	W	NW	VAR	CALM
TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100											
45/99	.1	.0	.1	.2	.2	.3	.2	.0	.1	.1	.0	.1	.1	.1	.1	.0	.1	.0	.1
50/94	1.9	.1	.7	2.5	2.7	2.9	1.6		.7	.8							.8	.0	2.0
55/89	2.6	2.2	2.3	6.5	7.0	7.0	3.5		2.3	2.8							6.1	.0	4.8
60/84	1.0	.4	2.4	5.3	9.4	10.0	3.6		2.4	2.0							2.0	.0	2.6
65/79	.4	.0	.1	.1	.9	.3	.0		.1	.5							.5	.0	.3
TOTAL	4.1	1.8	3.9	10.1	13.8	13.8	6.0		4.1	7.8							7.8	.0	6.8
PCT	6.1	2.7	5.7	14.8	20.3	20.2	8.8		6.1	11.5							11.5	.0	9.9

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR										TOTAL OBS
MAX	99%	95%	90%	85%	80%	75%	70%	65%	60%	
94	93	90	83	79	78	78	65	65	63.6	237
47	95	94	86	81	78	78	76	76	84.7	241
68	95	94	88	82	80	80	70	70	88.0	237
63	92	90	84	80	79	79	78	78	84.7	231
97	95	93	85	80	78	78	69	69	85.8	945
TOT										

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR										TOTAL OBS
HOUR (GMT)	0-29	30-39	40-69	60-69	70-79	80-89	90-100	MEAN		
0003	.0	3.8	12.6	19.3	20.9	37.4	20.2	79		182
0609	.0	8.5	19.3	31.8	31.8	31.3	9.1	76		176
1215	.0	12.6	24.0	32.2	32.2	22.4	8.7	73		183
1821	.0	4.0	10.2	26.1	26.1	38.1	21.6	81		176
TOT	0	41	115	199	199	231	107	77		717

PERIOD: (PRIMARY) 1951-1971  
(OVER-ALL) 1911-1971

MAY

AREA 0021 S. GULF OF OMAN  
23.1N 59.3E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)  
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIFF	77	81	85	89	93	TOT	M	NO FOG
14/16	.0	.0	.0	.1	.3	5	.0	.5
12/13	.0	.0	.1	.4	.3	8	.0	1.0
9/10	.0	.0	.4	1.4	1.6	26	.0	3.4
7/8	.0	.1	1.4	4.3	2.0	60	.0	7.9
6	.0	.4	2.0	2.2	.5	39	.0	5.1
5	.1	.4	2.7	2.5	.1	45	.0	5.9
4	.0	1.2	3.3	2.2	.1	52	.0	6.8
3	.1	2.0	5.1	2.4	.0	73	.0	9.0
2	.1	3.5	5.8	1.3	.0	82	.1	17.6
1	.5	4.6	5.9	.0	.0	91	.0	11.9
0	.9	7.2	6.0	.3	.0	114	.0	14.7
-1	1.0	4.6	2.4	.1	.0	64	.0	8.4
-2	1.3	3.1	1.7	.0	.0	47	.1	6.0
-3	.5	1.8	.3	.0	.0	20	.0	2.6
-4	.5	1.7	.1	.0	.0	18	.0	2.4
-5	.4	1.0	.0	.0	.0	11	.0	1.4
-6	.5	.0	.0	.0	.0	4	.0	.5
-7/-8	.1	.5	.0	.0	.0	5	.0	.7
TOTAL	48	246	286	143	39	764	.4	759
PCT	6.3	32.2	37.4	18.7	5.1	100.0	.5	99.3

AREA 0021 S. GULF OF OMAN  
23.1N 59.3E

MAY  
TABLE 13

PERIOD: (021 MAY) 1963-1971  
(OVER-ALL)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N			NE			48+	PCT
	1-3	4-10	11-21	22-33	34-47	48+		
<1	.0	2.1	.0	.0	.0	.0	.0	.7
1-2	.6	1.2	.0	.0	.0	.0	.0	1.5
3-4	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.6	3.2	.0	.0	.0	.0	.0	2.8

HGT	E			SE			48+	PCT
	1-3	4-10	11-21	22-33	34-47	48+		
<1	.0	.0	.0	.0	.0	.0	.0	3.8
1-2	.0	3.7	.0	.0	.0	.0	.0	4.0
3-4	.0	.6	.0	.0	.0	.0	.0	5.4
5-6	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.2	4.3	1.0	.0	.0	.0	.0	13.8

PERIOD: (PRIMARY)  
(OVER-ALL) 1963-1971

PAY  
TABLE 18

AREA 0021 S. GULF OF OMAN  
23.1N 59.3E

P:7 FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.5	1.9	2.1	2.1	2.1	2.1	3.4	.1	1.6	2.6	2.6	2.6	.0	1.8
1-2	.6	5.7	2.1	.0	.0	.0	8.4	.0	7.6	2.6	.0	.0	.0	10.3
3-4	.0	4.6	5.6	.0	.0	.0	10.1	.0	2.6	5.0	.6	.0	.0	8.2
5-6	.0	.0	3.1	.6	.0	.0	3.7	.0	.0	4.6	.0	.0	.0	4.6
7	.0	.0	1.2	.0	.0	.0	1.2	.0	.0	1.2	1.2	.0	.0	1.2
8-9	.0	.0	.9	.0	.0	.0	.9	.0	.0	.3	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.1	12.2	12.8	.6	.0	.0	27.6	.1	11.9	13.7	1.8	.0	.0	27.5

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.6	3.6	1.6	.0	.0	.0	2.2	.6	1.1	2.2	.0	.0	.0	7.7
1-2	.0	3.1	1.2	.0	.0	.0	4.3	.0	3.6	1.2	.0	.0	.0	5.0
3-4	.0	1.0	.6	.0	.0	.0	1.6	.0	1.2	1.2	.0	.0	.0	2.9
5-6	.0	.0	.6	.0	.0	.0	.6	.0	.0	.6	.0	.0	.0	.6
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.6	11.7	2.4	.0	.0	.0	8.7	.6	5.1	3.5	.0	.0	.0	9.3

PERIOD: (PRIMARY)  
(OVER-ALL): 1963-1971

MAY

AREA 0021 S. GULF OF OMAN  
23.1N 59.3E

TABLE 18 (CONT)

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	22.0	7.7	.5	.0	.0	.0	30.1	
1-2	2.4	23.4	6.7	.0	.0	.0	32.5	
3-4	.5	9.6	13.4	.5	.0	.0	23.9	
5-6	.0	.5	8.1	1.0	.0	.0	9.6	
7	.0	.0	1.9	.0	.0	.0	1.9	
8-9	.0	.0	1.0	1.0	.0	.0	1.9	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-43	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	24.3	41.1	31.6	2.4	.0	.0	100.0	209

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	12.3	24.2	15.0	4.0	.9	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	371	2
6-7	.0	2.2	4.3	2.6	.3	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	67	4
8-9	.0	.0	.3	.8	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	10	5
10-11	.0	.3	.0	.3	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7	3
12-13	.0	.0	.2	.0	.3	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	6
13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
15-16	18.1	4.7	4.2	1.2	.2	.3	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	186	1
17-18	199	206	153	58	13	12	1	0	1	0	0	0	0	0	0	0	0	0	0	645	2
TOTAL	30.9	31.9	24.0	9.0	2.0	1.9	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1950-1971  
(OVER-ALL) 1910-1971

JUNE

AREA 0021 S. GULF OF OMAN  
23.1N 59.2E

TABLE 1  
PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	MAIN	RAIN SHWR	ORZL PCPN	PRECIPITATION TYPE			HAIL PCPN	PCT FREQ PCPN AT 08 TIME	TOTAL PCPN	THOR LTNG	OTHER WEATHER PHENOMENA					TOTAL OBS
				ORZL PCPN	FRZG SNOW	OTHER PRZN PCPN					FOG MO PCPN	SMOKE HAZE	DUST BLWG	NO SIG BLWG		
N	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.1	.5	.2	3.3	35	
NE	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.1	1.0	.1	3.5	29	
E	.0	.0	.0	.0	.0	.0	.0	.0	0	.1	.0	1.8	.5	5.6	67	
SE	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.2	3.8	.6	13.6	151	
S	.0	.0	.0	.0	.0	.0	.0	.0	0	.1	.1	4.8	.7	19.7	212	
SW	.0	.0	.0	.0	.0	.0	.0	.0	0	.1	.1	3.0	.3	14.3	148	
W	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.6	.3	4.7	49	
NW	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.2	.6	.3	6.5	64	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	0	
CALM	.1	.0	.0	.0	.0	.0	.0	.1	1	.0	.0	1.5	.2	6.4	70	
TOT OBS	1	0	0	0	0	0	0	.1	1	.2	7	15.9	27	652	839	
TOT PCT	.1	.0	.0	.0	.0	.0	.0	.1	1	.2	.8	17.9	3.2	77.7	100.0	

TABLE 2  
PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	RAIN	RAIN SHR	ORZL PCPN	PRECIPITATION TYPE			HAIL PCPN	PCT FREQ PCPN AT 08 TIME	TOTAL PCPN OBS	THOR LTNG	OTHER WEATHER PHENOMENA					TOTAL OBS
				ORZL PCPN	FRZG SNOW	OTHER PRZN					FOG	SMOKE	DUST	NO		
0003	.0	.0	.0	.0	.0	.0	.0	.0	0	.8	1.7	12.8	2.5	31.2	239	
0609	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	1.3	16.5	5.2	77.1	221	
1215	.4	.0	.0	.0	.0	.0	.0	.4	1	.0	.0	22.0	3.5	74.0	227	
1821	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	19.2	2.4	78.4	208	
TOT	1	0	0	0	0	0	0	.1	1	.2	7	151	31	705	905	
PCT	.1	.0	.0	.0	.0	.0	.0	.1	1	.2	.8	17.8	3.4	77.7	100.0	



JUNE

PERIOD: (PRIMARY) 1950-1971  
(OVER-ALL) 1910-1971

AREA: 0021 S. GULF OF OMAN  
23.1N 59.3E

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)										HOUR (GMT)									
	0-3	4-10	11-21	22-33	34-47	48+	TOTAL	PCT	MEAN		00	03	06	09	12	15	18	21		
N	.0	2.8	.5	.0	.0	.0	35	3.9	6.9		2.4	.0	5.9	.0	5.6	.0	2.7	3.5		
NE	.7	3.9	.4	.0	.0	.0	44	4.8	6.1		3.7	.0	5.5	9.5	7.9	12.5	1.8	1.2		
E	1.1	5.2	1.3	.0	.0	.0	78	8.6	7.3		5.5	23.5	17.3	20.2	14.3	16.7	5.3	.0		
SE	2.8	11.9	3.1	.3	.0	.0	165	18.1	7.7		13.0	8.8	17.6	15.5	21.7	29.2	20.9	16.7		
S	1.9	11.0	11.0	1.0	.1	.0	228	25.0	11.4		30.2	26.5	22.5	23.8	19.2	20.8	28.2	26.2		
SW	.4	17.1	8.4	2.0	.1	.0	163	17.9	13.5		23.0	11.8	13.3	11.9	12.7	12.5	22.0	16.7		
W	.6	5.2	1.8	.1	.1	.0	53	5.8	9.7		6.5	11.8	7.3	9.5	2.9	.0	5.7	9.5		
NW	1.3	4.7	1.6	.0	.0	.0	70	7.7	7.7		5.5	17.6	9.6	.0	9.6	8.3	5.7	11.9		
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0		
CALM	8.2	54	256	31	2	.0	75	8.2	9.0		10.3	.0	9.0	9.5	6.1	.0	7.7	14.3		
TOT DRS	161	50.8	28.0	3.4	.2	.0	914	100.0			223	17	212	21	214	12	194	21		
TOT PCT	17.6	50.8	28.0	3.4	.2	.0	100.0	100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0		

TABLE 3A

	WIND SPEED (KNOTS)										HOUR (GMT)									
	0-6	7-16	17-27	28-40	41+	TOTAL	PCT	MEAN			00	03	06	09	12	15	18	21		
N	2.4	1.4	.2	.0	.0	35	3.9	6.9			2.2	2.4	5.4	5.3	2.8					
NE	3.3	1.5	.2	.0	.0	44	4.8	6.1			3.4	3.4	5.9	8.2	1.7					
E	4.5	3.9	.2	.0	.0	78	8.6	7.3			6.8	6.8	8.5	14.4	4.8					
SE	9.1	8.1	.8	.1	.0	165	18.1	7.7			12.7	12.7	17.4	22.1	20.5					
S	6.6	12.7	5.5	.2	.0	228	25.0	11.4			25.9	22.6	22.6	19.2	28.0					
SW	2.3	9.4	5.8	.4	.0	163	17.9	13.5			22.2	15.0	15.0	12.7	21.5					
W	2.1	3.1	.6	.1	.0	53	5.8	9.7			6.9	6.9	7.5	2.8	6.0					
NW	3.8	3.4	.5	.0	.0	70	7.7	7.7			6.4	6.4	8.7	9.5	6.3					
VAR	.0	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0					
CALM	8.2	54	256	31	2	75	8.2	9.0			9.6	9.6	9.0	5.8	8.4					
TOT DRS	386	398	123	7	.0	914	100.0				240	233	233	226	2.3					
TOT PCT	42.2	43.5	13.5	.8	.0	100.0	100.0				100.0	100.0	100.0	100.0	100.0					

JUNE

PERIOD: (PRIMARY) 1950-1971  
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TABLE 4

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				PCT FREQ	TOTAL OBS
				11-21	22-33	34-47	48+		
00003	9.6	8.3	46.7	27.9	6.7	.8	.0	9.9 100.0	240
06009	9.0	9.9	51.9	26.6	2.6	.0	.0	8.5 100.0	233
12015	5.8	11.9	52.7	27.0	2.7	.0	.0	8.7 100.0	226
18021	3.4	7.4	52.1	30.7	1.4	.0	.0	8.8 100.0	215
TOT	75	86	464	255	31	2	.0	9.0 100.0	914
PCT	3.2	9.4	50.8	28.0	3.4	.2	.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)  
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8-10	TOTAL OBS	MEAN CLOUD COVER
N	4.0	.3	.0	.0	31	.4
NE	3.1	.8	.5	.3	35	1.8
E	7.1	.1	.1	.1	63	.8
SE	15.5	.9	1.3	.1	132	.9
S	20.7	1.5	2.0	.7	184	1.0
SW	13.3	2.0	1.9	.8	132	1.6
W	5.1	.3	.4	.0	43	.8
NA	7.2	.2	.3	.0	56	.6
VAR	.0	.0	.0	.0	0	.0
TOT	8.1	.3	.1	.1	64	.4
TOT OBS	422	55	49	16	742	1.0
TOT PCT	93.8	7.4	6.6	2.2	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH > 478)  
AND OCCURRENCE OF NH < 5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH < 5/8	TOTAL
	149	299	599	999	1599	3499	4999	6499	7999		ANY HGT	OBS
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.2	31
NE	.0	.0	.0	.0	.1	.0	.0	.1	.0	.0	4.4	35
E	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	8.4	62
SE	.0	.0	.0	.0	.0	.1	.0	.1	.0	.0	17.3	132
S	.0	.0	.0	.0	.2	.3	.3	.0	.0	.0	23.8	184
SW	.0	.0	.0	.0	.2	.8	.2	.0	.0	.0	16.5	132
W	.0	.0	.0	.0	.2	.2	.1	.0	.0	.0	5.5	43
NA	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	7.4	56
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
TOT	.0	.0	.0	.0	.0	.1	.0	.3	.0	.0	8.5	64
TOT OBS	.0	.0	.0	.0	.0	.12	.5	.0	.0	.0	713	742
TOT PCT	.0	.0	.0	.0	.5	1.6	.7	.4	.0	.4	96.1	100.0

PERIOD: (PRIMARY) 1950-1971  
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TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE  
OF CEILING HEIGHT (NH >4/B) AND VSBY (NH)

CEILING (FEET)	OR		VSBY (NH)		OR		OR		CR
	>10	>5	= OR	>1	>1/2	>1/4	>50YD		
OR >6500	.4	.4	.4	.4	.4	.4	.4	.4	
OR >5000	.6	.7	.9	.9	.9	.9	.9	.9	
OR >3500	.7	1.4	1.5	1.5	1.5	1.5	1.5	1.5	
OR >2000	1.1	2.9	3.0	3.0	3.0	3.0	3.0	3.0	
OR >1000	1.2	3.2	3.5	3.5	3.5	3.5	3.5	3.5	
OR >600	1.5	3.6	3.9	3.9	3.9	3.9	3.9	3.9	
OR >300	1.5	3.6	3.9	3.9	3.9	3.9	3.9	3.9	
OR >150	1.5	3.6	3.9	3.9	3.9	3.9	3.9	3.9	
OR >0	1.2	2.9	3.1	3.1	3.1	3.1	3.1	3.1	
TOTAL	12	29	31	31	31	31	31	31	

TOTAL NUMBER OF OBS: 801

PCT FREQ NH <5/8: 96.1

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1		2		3		4		5		6		7		8		TOTAL	
	11.4	3.6	2.7	2.2	2.2	1.1	1.6	1.2	.7	.0	830							
75.3	11.4	3.6	2.7	2.2	2.2	1.1	1.6	1.2	.7	.0	830							

PERIOD: (PRIMARY) 1950-1971  
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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF  
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

WIND (NM)	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1/2<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1<2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
2<5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5<10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT OBS	4.2	4.7	8.1	18.2	25.3	17.5	5.9	7.7	.0	8.4	100.0	837
TOT: PCT												

PERIOD: (PRIMARY) 1950-1971  
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TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED  
WITH VARYING VALUES OF VISIBILITY

VSRY (NM)	SPO KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5<10	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10+	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT OBS	4.0	4.9	8.7	12.3	24.6	17.6	5.7	7.8	.0	8.3	100.0	904

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET) NH > 4/8) AND  
OCCURRENCE OF NH < 5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	600 999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH < 5/8 ANY HGT	TOTAL OBS
00003	.0	.0	.0	.0	.5	.9	1.4	.5	.0	.5	3.8	96.2	212
06009	.0	.0	.0	.5	.5	2.8	.5	.5	.0	.0	4.8	95.4	216
12015	.0	.0	.0	.0	.5	2.0	.5	.5	.0	1.0	4.5	99.5	201
18021	.0	.0	.0	1.0	.5	.0	.0	.5	.0	.0	2.1	98.9	194
TOT	0	0	0	3	4	12	5	4	0	3	31	792	823
PCT	.0	.0	.0	.4	.5	1.5	.6	.5	.0	.4	3.8	94.2	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NH) BY HOUR

HOUR (GMT)	< 1/2	1/2 < 1	1 < 2	2 < 5	5 < 10	10+	TOTAL OBS
00003	.0	.0	.0	4.9	29.1	66.0	206
06009	.0	.0	.0	6.7	33.5	59.8	209
12015	.5	.0	.0	4.0	41.4	53.5	198
18021	.0	.0	.0	4.3	32.4	62.3	188
TOT	1	0	1	40	273	486	801
PCT	.1	.0	.1	5.0	34.1	60.7	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NH) AND/OR  
CEILING HGT (FEET) NH > 4/8) BY HOUR

HOUR (GMT)	< 150 < 500	< 600 < 1000	1000+ < 5 AND 5+	NH < 5/8 AND 5+	TOTAL OBS
00003	.0	.0	4.9	3.9	91.3
06009	.0	.0	7.2	3.8	89.0
12015	.5	.5	5.1	4.0	90.9
18021	.0	.0	5.3	1.1	93.5
TOT	1	1	45	26	730
PCT	.1	.1	5.6	3.2	91.1

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PERIOD: (PRIMARY) 1950-1971  
(OVER-ALL) 1910-1971

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TABLE 13

		PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP										TOTAL	PCT
TEMP F		0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100			OBS	FREQ
95/99	.0	.0	.0	.2	.5	.8	.6	.3	.5			18	2.7
90/94	.0	.0	.0	.3	2.0	5.3	12.4	5.2	.6			170	25.8
85/89	.0	.0	.0	.0	.2	1.4	9.6	20.8	5.3			245	37.2
80/84	.0	.0	.0	.0	.0	.5	2.3	15.0	10.6			187	28.4
75/79	.0	.0	.0	.0	.0	.0	.0	8.4	3.3			38	5.8
70/74	.0	.0	.0	.0	.0	.0	.0	.0	.2			1	.2
TOTAL	3	3	3	17	52	104	288	135				659	100.0
PCT	.0	.0	.5	2.6	7.9	24.9	43.7	20.5					

TABLE 14

		PERCENT FREQUENCY OF WIND DIRECTION BY TEMP										VAR	CALM
TEMP F		N	NE	E	SE	S	SW	W	NW				
95/99	.2	.0	.0	.0	.8	.2	.1	.3	.8			.0	.3
90/94	1.7	2.1	3.4	4.6	3.8	3.4	2.5	2.5	3.8			.0	2.4
85/89	1.9	2.5	4.0	8.3	7.9	3.9	2.0	2.3	2.3			.0	4.2
80/84	.6	.0	1.2	3.0	12.9	8.9	.6	.4	.4			.0	.6
75/79	.0	.0	.0	.2	2.7	2.7	.2	.0	.0			.0	.0
70/74	.0	.0	.0	.0	.0	.0	.2	.0	.0			.0	.0
TOTAL	29	31	56	112	173	120	37	47	7.2			.0	50
PCT	4.4	4.7	8.5	17.0	26.6	18.2	5.7	7.2				.0	7.6

TABLE 15

		MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR										TOTAL
HOUR (GMT)		MAX	99%	95%	50%	5%	1%	MIN	MEAN			OBS
0003	93	92	90	85	78	76	76	74	84.7			258
0609	96	95	94	88	79	77	76	76	87.5			246
1215	97	96	95	89	82	79	77	77	88.7			231
1821	95	94	92	86	79	76	76	74	86.0			976
TOT	97	95	93	87	79	76	76	74	86.7			

TABLE 16

		PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR										TOTAL
HOUR (GMT)		0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN		OBS
0003	.0	.0	2.1	5.7	14.5	45.1	32.6	85				193
0609	.0	.0	4.1	8.2	38.5	36.9	12.3	79				195
1215	.0	.0	3.5	12.9	42.6	41.2	10.0	78				170
1821	.0	.0	2.5	6.8	48.4	25.5	63	161				161
TOT	0	22	60	307	185	145	81	8719				

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (OEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)  
VS AIR-SEA TEMPERATURE DIFFERENCE (OEG F)

AIR-SEA TMP DIF	73	77	81	85	89	93	TOT	W	WD
	76	80	84	88	92	96	FOG	FOG	FOG
14/16	.0	.0	.0	.0	.1	.3	3	.0	.4
11/13	.0	.0	.0	.1	.5	.3	7	.0	.9
9/10	.0	.1	.0	.3	1.0	1.3	13	.0	1.7
7/8	.0	.0	.3	.8	1.3	1.9	30	.0	3.7
6	.0	.1	.1	.3	1.0	1.7	19	.0	2.4
5	.0	.0	.5	.8	1.7	1.9	38	.0	4.7
4	.0	.4	.6	1.0	4.3	.9	57	.0	7.2
3	.0	.1	1.5	1.5	2.0	1.5	53	.0	6.7
2	.1	1.0	1.1	2.4	7.4	.1	73	.1	9.1
1	.3	1.4	1.8	4.4	5.3	.5	100	.1	12.6
0	.1	1.5	3.4	6.4	4.2	.4	126	.3	15.8
-1	.0	.9	2.5	4.4	2.4	.0	81	.1	10.2
-2	.0	1.1	3.4	4.6	.9	.0	79	.1	9.9
-3	.1	.5	2.0	2.5	.4	.0	44	.0	5.6
-4	.3	.8	1.4	1.0	.0	.0	27	.0	3.4
-5	.0	.4	1.0	.3	.4	.0	16	.0	2.0
-6	.0	.0	.6	.1	.0	.0	9	.0	1.1
-7/-8	.0	.3	.4	.0	.0	.0	8	.0	1.0
-9/-10	.0	.3	.1	.0	.0	.0	3	.0	.4
-11/-13	.0	.1	.0	.0	.0	.0	1	.0	.1
TOTAL	.9	8.8	21.0	30.9	29.2	8.8	787	.6	779
PCT							100.0	.8	99.0



PERIOD: (PRIMARY)  
(OVER-ALL) 1963-1971

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TABLE 18

AREA 0021 S. GULF OF OMAN  
23.1N 59.3E

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
HGT														
<1	.0	1.0	.4	.0	.0	.0	1.4	.6	2.8	.0	.0	.0	.0	3.3
1-2	.0	.0	.0	.0	.0	.0	.0	.0	2.3	.0	.0	.0	.0	2.3
3-4	.0	.6	.0	.0	.0	.0	.6	.0	1.1	.1	.0	.0	.0	1.2
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.5	.4	.0	.0	.0	1.9	.6	6.2	.3	.0	.0	.0	7.0

	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
HGT														
<1	1.1	2.1	.0	.0	.0	.0	3.2	1.1	4.0	.0	.0	.0	.0	5.1
1-2	.0	.0	.0	.0	.0	.0	4.0	.0	1.4	1.1	.0	.0	.0	2.2
3-4	.0	1.7	2.6	.0	.0	.0	4.3	.0	.6	.6	.0	.0	.0	1.1
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.8	1.1	.0	.0	.0	1.9
7	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.1	7.7	3.0	.0	.0	.0	11.9	1.1	6.8	2.8	.0	.0	.0	10.6

PERIOD: (PRIMARY)  
(OVERALL) 1963-1971

JUNE

TABLE 18

AREA 0021 S. GULF OF OM. N  
23.1N 59.3E

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
HGT	1.5	12.4	18.9	1.1	.0	.0	34.0	.7	6.4	9.5	1.7	.0	.0	18.2
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.5	12.4	18.9	1.1	.0	.0	34.0	.7	6.4	9.5	1.7	.0	.0	18.2

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.1	.0	.0	.0	.0	1.1	.0	.7	.1	.0	.0	.0	.0
1-2	.0	2.5	1.0	.0	.0	.0	3.5	.0	2.2	1.3	.0	.0	.0	.0
3-4	.0	.0	1.7	.0	.0	.0	1.7	.0	1.1	.3	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.0	.0	.0	.0
7	.0	.0	1.0	.0	.0	.0	1.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	3.6	3.6	.0	.0	.0	7.2	.0	4.0	5.1	.0	.0	.0	9.1

PERIOD1 (PRIMARY)  
(OVER-ALL) 1963-1971

JUNE

AREA 0021 S. GULF OF OMAN  
23.1N 59.3E

TABLE 18 (CONT)

WIND SPEED (KTS) VS SEA HEIGHT (FT)								TOT OBS
HGT	3-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	12.6	14.0	.5	.0	.0	.0	27.1	
1-2	.5	19.3	5.8	.0	.0	.0	25.6	
3-4	.5	10.1	18.8	.5	.0	.0	30.0	
5-6	.0	2.4	8.7	.5	.0	.0	11.6	
7	.0	.0	3.4	1.0	.0	.0	4.3	
8-9	.0	.0	1.0	.5	.0	.0	1.4	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	13.5	45.9	38.2	2.4	.0	.0	100.0	207

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+ TOTAL	MEAN HGT	
<6	8.7	17.8	16.4	4.8	1.4	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	308	2
6-7	.5	.6	4.7	6.4	3.2	.8	.2	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	104	5
8-9	.0	.3	.8	1.8	1.8	1.0	.3	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	38	6
10-11	.0	.5	.5	.8	.5	1.3	.3	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	25	6
12-13	.0	.0	.2	.2	.2	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	7
>13	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	8
INDET	15.4	2.9	2.1	1.1	.6	.3	.0	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	142	1
TOTAL	153	138	153	194	48	24	4	6	3	0	0	0	0	0	0	0	0	0	0	623	3
PCT	24.6	22.2	24.6	15.1	7.7	3.9	.6	1.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1951-1970  
(OVER-ALL) 1910-1970

JULY

AREA 0021 S. GULF OF OMAN  
23.1N 59.3E

TABLE 1  
PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	RAIN	RAIN SHVR	PRECIPITATION TYPE			HAIL	PCT FREQ PCPN AT DB TIME	TOTAL PCPN DBS	THDR LTNG	OTHER WEATHER PHENOMENA				TOTAL OBS	
			DRZL PCPN	FRZG PCPN	SNOW PCPN					OTHER PCPN	MO PCPN	HAZE	BLNG CLWG		NO SNOW
N	.0	.0	.0	.0	.0	.0	.0	0	.2	.0	.0	.8	.0	2.3	29
NE	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	1.0	.1	2.6	32
E	.0	.0	.0	.0	.0	.0	.0	0	.0	.5	.5	2.6	.3	7.4	95
SE	.0	.0	.1	.0	.0	.0	.1	1	.1	.5	.5	3.9	.6	17.7	200
S	.0	.0	.4	.0	.0	.0	.4	3	.1	.7	.7	6.4	.9	19.1	241
SW	.1	.0	.1	.0	.0	.0	.2	1	.2	.9	.9	6.8	1.3	11.7	133
W	.0	.0	.0	.0	.0	.0	.1	0	.0	.0	.0	.4	.3	1.6	21
NW	.0	.0	.0	.0	.0	.0	.0	0	.1	.0	.0	.8	.3	2.5	31
VAR	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
CALM	.0	.0	.0	.0	.0	.0	.0	0	.0	.1	.1	.7	.1	3.8	41
TOT DBS	1	0	0	0	0	0	.8	7	.5	23	23	25.5	3.9	60.2	876
TOT PCT	.1	.0	.7	.0	.0	.0	.8	.8	.6	2.6	2.6	23.4	3.9	68.7	100.0

TABLE 2  
PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PATN	RAIN SHVR	ORZL	PRECIPITATION TYPE			HAIL	PCT FREQ PCPN AT DB TIME	TOTAL PCPN DBS	THDR LTNG	OTHER WEATHER PHENOMENA				TOTAL OBS
				FRZG	SNOW	OTHER					PCPN	MO	HAZE	BLWG	
0000	.0	.0	.9	.0	.0	.0	.0	.9	2	1.7	1.7	24.3	4.3	67.2	235
0600	.0	.0	.4	.0	.0	.0	.0	.4	1	.0	2.2	22.7	1.3	72.3	224
1200	.0	.0	.8	.0	.0	.0	.0	.8	2	.4	2.5	23.2	5.5	67.5	237
1800	.5	.0	.5	.0	.0	.0	.0	.9	2	.0	4.2	21.0	3.7	70.1	214
TOT	1	0	6	0	0	0	0	.8	7	.5	24	210	.4	630	910
PCT	.1	.0	.7	.0	.0	.0	.0	.8	.8	.5	2.6	23.1	3.7	69.2	100.0

JULY

PERIOD: (PRIMARY) 1951-1970  
(OVER-ALL) 1950-1970AREA: 0021 S. GULF OF OMAN  
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TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)					PCT FREQ	MEAN SPO	HOUR (GMT)							
	1-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	00	03	06	09	12	15	18	21
N	1.1	1.7	.3	.0	.0	.0	31	2.4	.0	3.7	9.0	5.7	4.2	.0	4.3
NE	1.7	3.0	.1	.1	.0	.0	38	3.7	6.7	3.9	9.0	6.2	1.0	.0	9.8
E	1.4	7.7	2.2	.1	.0	.0	111	9.8	26.7	11.5	10.0	15.9	13.6	5.7	27.2
SE	2.1	13.6	6.7	.4	.0	.0	222	21.1	23.3	22.5	18.0	22.3	25.0	22.7	21.7
S	1.1	10.4	13.0	2.9	.1	.0	268	23.6	16.7	28.7	34.0	23.9	30.4	35.0	16.3
SW	.6	6.5	10.4	2.9	.2	.0	200	26.8	23.3	18.9	14.0	15.6	16.7	22.5	12.0
W	.1	1.3	.8	.1	.0	.0	22	1.6	3.2	2.6	.0	2.1	2.1	3.3	.0
NW	.9	2.0	.5	.*	.0	.0	34	1.9	.0	5.0	2.0	4.0	.0	4.6	.0
VAR	.0	.0	.0	.0	.0	.0	48	7.1	.0	3.2	4.0	4.3	.0	5.4	8.7
TOTAL OBS	4.9	451	332	63	2	0	976	238	15	217	25	231	24	203	23
TOTAL PCT	13.1	46.2	34.0	6.5	.2	.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					PCT FREQ	MEAN SPO	HOUR (GMT)							
	0-6	7-16	17-27	28-40	41+	TOTAL OBS	00	03	06	09	12	15	18	21	23
N	2.0	1.2	.0	.0	.0	31	5.9	2.3	4.2	5.6	4.4	5.7	1.5	.4	.0
NE	1.8	2.0	.1	.0	.0	38	7.0	3.9	4.4	5.7	5.7	1.5	8.1	.0	.0
E	4.8	6.1	.5	.0	.0	111	8.0	9.9	11.4	15.9	15.9	8.1	22.6	.0	.0
SE	7.6	13.0	2.2	.3	.0	222	9.3	24.0	22.0	22.5	22.5	22.6	33.1	.0	.0
S	4.5	14.8	7.9	.3	.0	268	13.1	23.2	29.2	25.0	25.0	21.5	21.5	.0	.0
SW	2.8	10.3	6.8	.5	.1	200	14.4	26.4	18.4	15.7	15.7	21.5	21.5	.0	.0
W	.6	1.2	.4	.0	.0	22	10.8	1.7	2.4	2.1	3.0	4.1	.0	.0	.0
NW	2.4	1.0	.2	.0	.0	34	5.6	1.8	4.6	3.6	4.1	.0	.0	.0	.0
VAR	.0	.0	.0	.0	.0	48	.9	6.7	3.3	3.9	5.3	22.6	100.0	100.0	100.0
TOTAL OBS	307	483	177	8	.1	976	10.5	253	242	255	226	100.0	100.0	100.0	100.0
TOTAL PCT	31.5	49.5	18.1	.8	.1	100.0	10.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

JULY

AREA 0021 S. GULF OF OMAN  
23.1N 59.3E

PERIOD: (PRIMARY) 1951-1970  
(OVER-ALL) 1910-1970

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				48+	M.F.	PCT FREQ	TOTAL OBS
				11-21	22-23	34-47	8				
0003	6.7	4.3	41.1	38.3	8.7	8	.8	.0	11.4	100.0	253
0609	3.3	11.6	46.7	32.2	6.2	.0	.0	.0	10.2	100.0	242
1215	3.9	10.6	51.4	29.8	4.3	.0	.0	.0	9.8	100.0	255
1821	5.8	6.2	45.6	35.8	6.6	.0	.0	.0	10.6	100.0	226
TOT	48	80	451	332	63	2	2	0	10.5	100.0	976
PCT	4.9	8.2	46.2	34.0	6.5	.2	.2	.0			

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)  
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8-1	OBS'D	TOTAL OBS	MEAN CLOUD COVER	
							2.8	2.5
N	1.7	.2	.9	.4	23	23	2.8	2.5
NE	2.1	.5	.9	.3	27	27	2.5	2.5
E	6.5	1.3	2.0	.8	77	77	2.5	2.5
SE	15.1	2.9	4.4	2.2	179	179	2.4	2.6
S	16.8	2.5	5.2	3.7	206	206	2.6	2.6
SW	9.7	2.4	3.5	3.7	141	141	3.3	3.7
W	.9	.1	.3	.5	13	13	3.7	2.3
NW	2.3	.3	.7	.3	26	26	2.3	2.3
VAR	.0	.0	.0	.0	0	0	.0	.0
CALM	3.7	.1	.5	.4	35	35	1.5	1.5
TOT OBS	430	77	135	89	731	731	2.6	2.6
TOT PCT	58.8	10.5	18.5	12.2	100.0	100.0		

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >478)  
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8-1	TOTAL OBS	MEAN CLOUD COVER	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS	
N	17	2	9	4	23	2.8	1	0	0	0	0	2	0	0	0	0	3	2.6	23
NE	21	5	9	3	27	2.5	0	0	0	0	1	0	*	1	0	0	1	3.3	27
E	65	13	20	8	77	2.5	0	0	2	1	5	7	1	0	1	0	0	9.2	77
SE	15	9	4	2	19	2.4	0	0	0	0	8	0	1	0	*	*	22.1	179	
S	16	8	5	3	26	2.6	1	0	3	1	10	6	0	2	0	9	22.3	206	
SW	9	2	3	7	11	3.3	3	0	5	7	10	1	0	3	1	2	14.7	141	
W	9	1	3	5	13	3.7	0	0	2	2	0	2	1	0	1	0	1.2	13	
NW	23	3	7	3	26	2.3	*	0	0	*	0	*	0	0	0	0	3.2	26	
VAR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CALM	37	1	5	4	35	1.5	1	0	0	0	1	0	0	0	0	0	4.5	35	
TOT OBS	430	77	135	89	731	2.6	5	0	11	23	26	3	13	9	3	12	607	731	
TOT PCT	58	12	18	12	100		7	0	15	31	36	3	18	10	4	16	100.0	100.0	

PERT D1 (PRIMARY) 1951-1970  
(OVER-ALL) 1910-1970

JULY

AREA 0021 S. GULF OF OMAN  
23.1N 59.3E

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE  
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	OR >10	OR >5	OR >2	OR >1	OR >1/2	OR >1/4	OR >5000	OR >0
= OR >6500	3	2.0	2.1	2.1	2.1	2.1	2.1	2.1
= OR >5000	3.5	2.4	3.0	3.0	3.0	3.0	3.0	3.0
= OR >3500	4.8	3.7	4.7	4.7	4.7	4.7	4.7	4.7
= OR >2000	1.8	6.6	7.9	7.9	7.9	7.9	7.9	7.9
= OR >1000	2.9	9.3	11.6	11.6	11.6	11.6	11.6	11.6
= OR >600	3.6	10.0	14.5	14.5	14.5	14.5	14.5	14.5
= OR >300	4.2	13.3	16.1	16.1	16.2	16.2	16.2	16.2
= OR >150	4.2	13.3	16.1	16.1	16.2	16.2	16.2	16.2
= OR >0	4.5	13.7	16.4	16.4	16.7	16.7	16.7	16.7
TOTAL	34	104	125	125	127	127	127	127

TOTAL NUMBER OF OBS: 760

PCT FREQ NH <3/8: 83.3

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	TOTAL
57.1	7.7	1.2	6.6	5.0	2.7	2.8	3.8	7.7	808

PERIOD: (PRIMARY) 1951-1970  
(OVER-ALL) 1910-1970

JULY

AREA 0021 S. GULF OF OMAN  
23.1N 59.3E

TABLE 3

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF  
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2 PCP NO PCP TOT %	.0 .0 .0	.0 .0 .0	.0 .0 .0	.0 .0 .0	.0 .1 .1	.0 .0 .0	.0 .0 .0	.0 .0 .0	.0 .0 .0	.0 .0 .0	.0 .1 .1	
1/2<1 PCP NO PCP TOT %	.0 .0 .0	.0 .0 .0	.0 .0 .0	.0 .0 .0	.0 .1 .1	.0 .1 .1	.0 .0 .0	.0 .0 .0	.0 .0 .0	.0 .0 .0	.0 .2 .2	
1<2 PCP NO PCP TOT %	.0 .1 .1	.0 .1 .1	.0 .3 .3	.0 .3 .3	.0 .4 .4	.0 .2 .2	.0 .1 .1	.0 .0 .0	.0 .0 .0	.0 .0 .0	.0 1.4 1.4	
2<5 PCP NO PCP TOT %	.0 .2 .2	.0 .3 .3	.0 1.2 1.2	.0 1.9 1.9	.1 2.4 2.6	* 4.7 4.7	.1 .1 .2	.0 .4 .4	.0 .0 .0	.0 .1 .1	.2 11.2 11.3	
5<10 PCP NO PCP TOT %	.0 1.8 1.8	.0 2.1 2.1	.0 5.2 5.2	* 10.3 10.3	.3 15.6 15.9	.1 10.8 10.9	.0 1.3 1.3	.0 1.8 1.8	.0 .0 .0	.0 2.6 2.6	.5 51.3 51.9	
10+ PCP NO PCP TOT %	.0 1.2 1.2	.0 1.3 1.3	.0 4.3 4.3	.1 10.4 10.5	.0 8.6 8.6	.0 5.6 5.0	.0 .8 .8	.0 1.4 1.4	.0 .0 .0	.0 1.8 1.8	.1 34.7 34.9	
TOT OBS TOT PCT	3.2	5.7	10.9	23.0	27.6	20.9	2.4	3.6	.0	4.6	100.0	872



JULY

PERIOD (PRIMARY) 1951-1970  
(OVER-ALL) 1910-1970

AREA 0021 S. GULF OF OMAN  
23.1N 59.3E

TABLE 9

PERCENT FREO OF WIND DIRECTION VS WIND SPEED  
WITH VARYING VALUES OF VISIBILITY

VSRY (M)	SPO KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	.1
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	.1
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.1	.1	.0	.0	.0	.0	.2	.2
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1	.1
	TOT %	.0	.0	.0	.0	.1	.2	.0	.0	.0	.0	.3	.3
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.1	.0	.1	.2	.2
	4-10	.1	.1	.3	.2	.3	.1	.0	.0	.0	.0	1.0	1.0
	11-21	.0	.0	.0	.1	.1	.1	.1	.0	.0	.0	.4	.4
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.1	.1	.3	.3	.4	.2	.1	.1	.0	.1	1.6	1.6
2<5	0-3	.0	.0	.1	.2	.1	.1	.0	.0	.0	.0	.6	.6
	4-10	.2	.3	1.1	1.2	.7	1.7	.2	.2	.0	.2	5.7	5.7
	11-21	.0	.0	.0	.6	1.8	2.7	.0	.1	.0	.0	5.2	5.2
	22+	.0	.0	.0	.1	.3	.2	.0	.0	.0	.0	.6	.6
	TOT %	.2	.3	1.2	2.1	3.0	4.6	.2	.3	.0	.2	12.2	12.2
5<10	0-3	.6	.3	.9	1.3	.6	.1	.1	.4	.0	2.7	7.2	7.2
	4-10	.9	1.7	3.2	6.1	5.5	2.9	.7	1.1	.0	.0	22.2	22.2
	11-21	.2	.1	1.2	2.7	7.8	3.9	.5	.2	.0	.0	18.5	18.5
	22+	.0	.0	.0	.2	1.7	1.7	.0	.0	.0	.0	3.6	3.6
	TOT %	1.7	2.3	5.3	10.4	15.6	10.6	1.3	1.7	.0	2.7	51.4	51.4
10+	0-3	.5	.4	.3	.7	.4	.3	.0	.5	.0	1.7	4.7	4.7
	4-10	.6	.7	3.0	6.4	3.3	1.8	.5	.7	.0	.0	17.4	17.4
	11-21	.2	.4	1.0	3.3	3.6	1.9	.2	.3	.0	.0	10.5	10.5
	22+	.0	.1	.1	.0	.6	.9	.1	.4	.0	.0	1.8	1.8
	TOT %	1.2	1.2	4.4	10.3	8.4	4.9	.8	1.4	.0	1.7	34.4	34.4
TOT OBS		5.1	3.9	11.2	23.1	27.7	20.5	2.3	3.5	.0	4.7	100.0	937

PERIOD: (PRIMARY) 1951-1970  
 (OVER-ALL) 1910-1970

JULY

AREA 0021, S. GULF OF OMAN  
 23.1N 59.3E

TABLE 10  
 PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH > 4/8) AND  
 OCCURRENCE OF NH < 5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	5000 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	.0	.0	2.1	1.0	3.6	4.6	3.1	1.4	.0	1.5	17.5	82.5	194
06009	.9	.0	1.9	3.8	3.8	2.4	1.4	1.4	.5	1.9	17.9	82.1	212
12015	.5	.0	1.5	3.4	2.4	1.5	.5	.5	1.0	2.4	13.6	96.4	206
18021	1.1	.0	.5	3.3	4.9	3.8	1.5	.0	.0	.5	13.8	84.2	183
TOT PCT	5 .6	0 .0	12 1.5	23 2.9	29 3.6	24 3.0	13 1.6	7 .9	3 .4	13 1.6	129 16.2	666 83.8	795 100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2 1/2<1	1/2 1/2<1	1/2 1/2<1	2<5	5<10	10+	TOTAL OBS
00003	.0	.0	.0	9.3	49.5	41.2	182
06009	.0	.0	.0	13.5	47.5	39.0	200
12015	.0	.5	1.7	11.5	51.5	35.5	200
18021	.0	.6	.4	9.6	52.8	36.5	178
TOT PCT	0 .0	2 .3	3 .4	84 11.1	382 50.3	249 36.0	760 100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR  
 CEILING HGT (FEET, NH > 4/8), 8Y HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH < 5/8 AND 5+	TOTAL OBS
00003	.0	2.2	12.1	13.2	74.7	182
06009	.5	2.5	19.0	9.0	72.0	200
12015	.5	2.5	17.5	7.0	75.5	200
18021	1.1	1.7	14.6	9.0	76.4	178
TOT PCT	4 .5	17 2.2	121 15.9	77 9.5	587 74.6	760 100.0

JULY

PERIOD: (PRIMARY) 1951-1970  
(OVER-ALL) 1910-1970

AREA 0021 S. GULF OF OMAN  
23.1N 59.3E

TABLE 13

TEMP F	PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP										TOTAL OBS	PCT FREQ
	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100				
95/99	.0	.0	.1	.1	.6	.1	.0	.0			6	1.2
90/94	.0	.0	.1	1.0	2.6	7.0	5.5	.4			115	16.7
85/89	.0	.0	.0	.0	.7	9.2	19.2	5.4			237	34.4
80/84	.0	.0	.0	.0	.1	2.0	12.9	8.5			171	24.9
75/79	.0	.0	.0	.0	.0	.4	8.9	10.0			136	19.8
70/74	.0	.0	.0	.0	.0	.0	.0	3.1			21	3.1
TOTAL	.0	.0	2	8	28	136	320	191			688	100.0
PCT	.0	.0	.3	1.2	4.1	20.2	46.5	27.6				

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP											VAR	CALM
N	NE	E	SE	S	SW	W	NW					
.3	.0	.2	.2	.0	.0	.0	.3				.0	.1
1.3	1.1	2.1	4.0	3.0	2.0	.7	1.4				.0	1.2
1.2	1.9	6.6	10.8	5.1	3.7	.8	1.2				.0	3.1
.6	.6	2.4	5.7	8.1	5.9	.7	.5				.0	.3
.0	.0	.3	1.3	9.6	8.0	.4	.0				.0	.1
.0	.0	.0	.1	1.5	1.5	.0	.0				.0	.0
.23	.24	.80	1.52	1.88	1.45	.17	.23				.0	.33
3.5	3.6	11.7	22.1	27.4	21.1	2.5	3.4				.0	4.8

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR										TOTAL OBS
HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN		
0000Z	92	91	90	83	74	72	72	82.3		260
0600Z	96	94	92	85	76	74	73	84.5		249
1200Z	97	95	94	86	76	75	74	83.8		259
1800Z	97	93	91	84	74	71	71	83.1		233
TOT	97	94	92	85	75	73	71	84.0		1001

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR											TOTAL OBS
HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN		
0000Z	.0	.5	2.2	2.2	10.2	41.4	45.7	88			186
0600Z	.0	2.2	2.8	32.6	47.8	14.6	82	178			183
1200Z	.0	2.2	7.7	23.4	48.1	13.7	81	166			166
1800Z	.0	.6	3.6	9.0	51.2	35.5	86	713			713
TOT	0	10	29	144	335	195	84				

PERIOD (PRIMARY) 1951-1973  
(OVER-ALL) 1910-1970

JULY

AREA 0021 5. GULF OF OMAN  
23.1N 59.3E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)  
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	69	73	77	81	85	89	93	TOT	W	WD
	72	76	80	84	88	92	96	FOG	FOG	FOG
14/16	.0	.0	.0	.0	.0	.1	.1	2	.0	.3
11/13	.0	.0	.1	.1	.3	.5	.5	11	.0	1.4
9/10	.0	.1	.3	.5	.6	.4	.3	13	.0	1.7
7/8	.0	.1	.3	.5	.8	.6	.5	21	.3	2.3
6	.0	.0	.4	.6	.8	.3	.3	20	.0	2.5
5	.0	.1	.5	1.1	.9	.6	.3	28	.1	3.4
4	.0	.4	1.0	1.0	.5	1.1	.8	40	.3	4.7
3	.0	1.0	1.1	.9	.9	2.0	.8	53	.1	6.6
2	.0	1.3	1.0	1.0	1.3	3.6	.6	69	.1	8.7
1	.1	.8	2.2	.9	1.8	3.1	.1	70	.1	8.8
0	.1	.5	1.4	1.3	3.6	3.2	.0	79	.8	9.3
-1	.0	1.4	1.5	1.7	4.7	2.7	.0	94	.1	11.8
-2	.1	1.1	1.8	2.5	2.8	.0	.0	73	.4	8.9
-3	.1	.8	2.0	2.4	3.6	.8	.0	76	.3	9.4
-4	.0	.6	1.3	2.0	1.5	.0	.0	43	.1	5.4
-5	.0	.3	.4	1.3	1.5	.1	.0	28	.1	3.4
-6	.0	.1	.8	.8	.8	.0	.0	19	.0	2.4
-7/-8	.0	.4	.9	2.0	.1	.0	.0	27	.0	3.4
-9/-10	.0	.3	.5	.3	.3	.0	.0	10	.0	1.3
-11/-13	.1	.1	.5	.0	.0	.0	.0	6	.1	.6
-14/-16	.1	.3	.0	.0	.0	.0	.0	3	.0	.4
TOTAL	6	75	140	163	211	157	29	785	23	760
PCT	.8	9.6	17.8	20.8	26.9	20.0	3.7	100.0	2.9	96.8

PERIOD: (PRIMARY)  
(OVER-ALL) 1969-1970

JULY

TABLE 12

AREA 0021 S. GULF OF OMAN  
23.1N 54.3E

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N				NE				PCT				
	1-3	4-10	11-21	22-33	34-47	48+	1-3	4-10		11-21	22-33	34-47	48+
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.4	.0	.0	.0	.0	.0	3.5	.0	.0	.0	.0	3.5
3-4	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.9	.4	.0	.0	.0	.0	.5	3.6	.0	.0	.0	.0	4.1

HGT	E				SE				PCT
	1-3	4-10	11-21	22-33	34-47	48+	50+		
<1	.5	.8	.0	.0	.0	.0	.0	3.2	
1-2	.5	2.1	1.9	.0	.0	.0	.0	9.6	
3-4	.0	1.6	1.5	.0	.0	.0	.0	5.3	
5-6	.0	1.2	.0	.0	.0	.0	.0	2.5	
7	.0	.0	.0	.0	.0	.0	.0	.9	
8-9	.0	.0	.0	.0	.0	.0	.0	.5	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.9	5.7	3.9	.0	.0	.0	.0	21.6	

PERIOD (PRIMARY)  
(OVER-ALL) 1953-1970

JULY

TABLE 18

AREA 0021 S. GULF OF OMAN  
23.1N 59.3E

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.5	1.6	.4	.0	.0	.0	2.5	.0	2.0	.0	.0	.0	.0	2.0
1-2	.5	7.4	1.9	.0	.0	.0	9.7	.0	1.6	.4	.0	.0	.0	2.0
3-4	.0	3.0	8.1	.0	.0	.0	11.1	.0	1.5	6.0	.9	.0	.0	8.4
5-6	.0	.4	3.4	.4	.0	.0	7.1	.0	.0	3.4	.0	.0	.0	3.4
7	.0	.0	2.2	.9	.0	.0	5.2	.0	.0	2.0	.5	.0	.0	2.5
8-9	.0	.0	.0	.5	.0	.0	.5	.0	.0	.0	.5	.0	.0	.5
10-11	.0	.0	.0	.5	.0	.0	.5	.0	.1	.0	.5	.0	.0	.1
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	.0	.0	.5
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-28	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.9	12.4	17.9	3.3	.0	.0	34.5	.0	5.3	11.7	2.3	.0	.0	19.3

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.5	1.4	.0	.0	.0	.0	1.9
1-2	.0	2.2	.0	.0	.0	.0	2.2	.5	1.9	.5	.0	.0	.0	2.8
3-4	.0	.0	.0	.0	.0	.0	.8	.0	.0	.5	.0	.0	.0	.5
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-28	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.6	.8	.0	.0	.0	3.4	.0	3.3	.9	.0	.0	.0	5.1

PERIOD: (PRIMARY) 1969-1970  
(OVER-ALL) 1967-1970

AUGUST

AREA 0021 S. GULF OF OMAN  
23.1N 59.3E

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)									
CEILING (FEET)	OR >10	OR >5	OR >2	VSBY (NM) OR >1	OR >1/2	OR >1/4	OR >5000	OR >0	
OR >6500	.3	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
OR >5000	.7	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
OR >3500	2.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
OR >2000	2.9	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6
OR >1000	3.4	10.1	10.4	10.4	10.4	10.4	10.4	10.4	10.4
OR >600	3.7	11.5	12.4	12.5	12.5	12.5	12.5	12.5	12.5
OR >300	3.8	12.4	13.3	13.6	13.6	13.6	13.6	13.6	13.6
OR >150	3.8	12.4	13.3	13.6	13.6	13.6	13.6	13.6	13.6
OR >0	3.8	12.8	13.7	14.0	14.0	14.0	14.0	14.0	14.0
TOTAL	29	98	105	107	107	107	107	107	107

TOTAL NUMBER OF OBS: 766 PCT FREQ NH <5/8: 86.0

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)									
	0	1	2	3	4	5	6	7	8
	62.4	9.3	6.1	4.4	3.3	2.2	3.3	3.2	5.4
								.2	8.4
									TOTAL OBS

PERIOD: (PRIMARY) 1949-1970  
(OVER-ALL) 1907-1970

AUGUST

AREA 0021 5. GULF OF OMAN  
23.1N 59.3E

TABLE 1  
PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	RAIN	RAIN SHWR	ORZL	PRECIPITATION TYPE			HAIL	PCT FREQ PCPN AT OBS TIME	TOTAL PCPN OBS	THOR LTNG	OTHER WEATHER PHENOMENA					TOTAL OBS
				FRZG	SNOW	OTHER PCPN					FG	SMOKE	HAZE	BLWG	SNOW	
N	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.5	.1	1.5	18
NE	.0	.0	.0	.0	.0	.0	.0	.0	0	.1	.3	.7	.7	.0	3.6	41
E	.0	.0	.0	.0	.0	.0	.0	.0	0	.1	.2	2.4	2.4	.5	8.7	103
SE	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.2	4.2	4.2	.6	18.0	200
S	.0	.0	.1	.0	.0	.0	.0	.1	0	.0	.7	5.7	5.7	.2	22.6	255
SW	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	1.0	4.0	.0	.1	12.9	157
W	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.2	.2	.2	.0	1.2	13
NW	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.3	.3	.1	2.1	22
VAR	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.1	1.4	.0	.1	5.4	61
TOT OBS	.0	.0	.1	.0	.0	.0	.0	.0	1	.2	2.4	1.6	1.6	1.5	652	873
TOT PCT	.0	.0	.1	.0	.0	.0	.0	.1	.1	.2	2.7	19.4	1.7	1.7	75.8	100.0

TABLE 2  
PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	RAIN	RAIN SHWR	ORZL	PRECIPITATION TYPE			HAIL	PCT FREQ PCPN AT OBS TIME	TOTAL PCPN OBS	THOR LTNG	OTHER WEATHER PHENOMENA					TOTAL OBS
				FRZG	SNOW	OTHER PCPN					FG	SMOKE	HAZE	BLWG	SNOW	
0000	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	4.1	18.9	.9	.9	75.7	222
0609	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	3.8	22.4	.0	1.7	72.2	237
12015	.0	.0	.4	.0	.0	.0	.0	.4	1	.0	2.1	20.3	.0	5.4	73.8	237
16021	.0	.0	.0	.0	.0	.0	.0	.0	0	.5	.9	13.6	.0	.5	64.5	213
TOT	.0	.0	.1	.0	.0	.0	.0	.0	1	.2	2.5	17.2	.0	1.5	69.4	909
PCT	.0	.0	.1	.0	.0	.0	.0	.1	.1	.2	2.8	18.9	.0	1.7	76.3	100.0



## AUGUST

PERIOD: (PRIMARY) 1949-1970  
(OVER-ALL) 1907-1970AREA 0021 S. GULF OF OMAN  
23.1N 59.3E

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)										HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPO	00	03	06	09	12	15	18	21	
N	.7	1.4	.2	.0	.0	.0	23	2.3	5.5	3.1	8.3	3.0	.0	2.5	.0	.8	.0	
NE	.9	3.9	.3	.0	.0	.0	49	5.0	6.7	4.7	.0	4.5	5.0	8.5	10.0	1.0	10.7	
E	1.7	8.1	2.2	.1	.0	.0	120	12.1	7.6	9.2	14.6	11.9	12.5	19.4	13.3	6.1	13.4	
SE	2.2	14.6	6.0	.1	.0	.0	229	22.9	8.8	24.9	18.8	15.3	14.4	24.4	30.8	25.4	13.4	
S	.9	10.3	14.1	2.9	.0	.0	280	28.1	13.2	27.8	27.1	30.8	24.4	25.0	20.8	31.4	23.2	
SW	.3	5.5	10.5	2.3	.0	.0	186	18.7	14.4	21.5	29.2	19.4	28.8	10.1	21.7	20.2	25.0	
W	.4	.9	.3	.1	.0	.0	16	1.6	8.1	.0	2.1	1.9	2.5	1.6	.0	2.5	5.4	
NW	.5	2.2	.2	.0	.0	.0	29	2.9	5.6	1.4	.0	2.9	5.0	3.5	3.3	3.5	5.4	
VAR	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	6.5	46.9	33.6	55	0	0	55	6.5	10.0	7.4	24	21.9	7.5	5.1	3.0	9.1	3.6	
TOT OBS	140	45.9	33.6	55	0	0	1000	100.0	10.0	215	24	100.0	100.0	100.0	100.0	100.0	100.0	
TOT PCT	14.0	45.9	33.6	5.5	.0	.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)				41+	TOTAL OBS	PCT FREQ	MEAN SPO	HOUR (GMT)								
	0-5	7-10	11-27	28-40					00	03	06	09	12	15	18	21	
N	1.6	.7	.0	.0	.0	23	2.3	5.5	3.7	3.7	2.5	2.3	2.3	2.3	.7	.0	
NE	2.5	2.5	.0	.0	.0	49	5.0	6.7	4.2	4.2	4.5	4.5	5.6	5.6	2.1	.0	
E	6.0	5.9	.2	.0	.0	120	12.1	7.6	9.7	9.7	12.0	12.0	18.7	18.7	7.0	.0	
SE	7.6	14.3	.9	.1	.0	229	22.9	8.8	24.3	24.3	18.5	18.5	25.1	25.1	23.9	.0	
S	4.3	15.5	7.6	.7	.0	280	28.1	13.2	27.7	27.7	29.8	24.5	24.5	30.4	30.4	.0	
SW	2.1	9.6	6.8	.3	.0	186	18.7	14.4	22.3	22.3	20.8	11.4	11.4	20.8	20.8	.0	
W	.9	.5	.2	.0	.0	16	1.6	8.3	.2	.2	2.0	1.4	2.9	2.9	.0	.0	
NW	2.5	.5	.0	.0	.0	29	2.9	5.6	1.3	1.3	3.2	3.5	3.5	3.7	.0	.0	
VAR	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	6.5	49.4	15.6	1.0	.0	65	6.5	10.1	6.7	6.7	6.6	4.5	4.5	2.5	2.5	.0	
TOT OBS	340	49.4	15.6	1.0	.0	1000	100.0	10.1	23.9	23.9	25.9	26.6	26.6	26.6	26.6	26.6	.0
TOT PCT	34.0	49.4	15.6	1.0	.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1949-1970  
(OVER-ALL) 1907-1970

AUGUST

AREA 0021 S. GULF OF OMAN  
29.1N 59.3E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALN	1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
0000	6.0	5.9	44.6	36.4	6.3	.0	.0	10.6	100.0	239
0600	6.0	8.9	49.0	30.1	5.4	.0	.0	9.6	100.0	259
1200	4.1	11.3	48.5	30.5	5.3	.0	.0	9.6	100.0	266
1800	8.1	3.4	44.9	38.1	5.1	.0	.0	10.5	100.0	236
TOT	6.0	7.5	46.9	33.6	5.5	.0	.0	10.1	100.0	1000
PCT	6.0	7.5	46.9	33.6	5.5	.0	.0	10.1	100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)  
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	31-32	33-34	35-36	37-38	39-40	41-42	43-44	45-46	47-48	49-50	51-52	53-54	55-56	57-58	59-60	TOTAL	DBS
N	1.5	1.1	1.2	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
NE	2.4	1.8	1.8	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
E	7.0	3.7	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
SE	15.7	2.5	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
S	20.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
SW	10.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
W	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
NW	2.0	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
VAR	2.0	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
CALN	5.9	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
TOT DBS	487	86	94	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70
TOT PCT	66.1	11.7	12.8	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT) NH >4/8  
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	31-32	33-34	35-36	37-38	39-40	41-42	43-44	45-46	47-48	49-50	51-52	53-54	55-56	57-58	59-60	TOTAL	DBS
N	1.5	1.1	1.2	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
NE	2.4	1.8	1.8	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
E	7.0	3.7	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
SE	15.7	2.5	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
S	20.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
SW	10.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
W	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
NW	2.0	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
VAR	2.0	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
CALN	5.9	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
TOT DBS	487	86	94	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70
TOT PCT	66.1	11.7	12.8	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5

PERIOD: (PRIMARY) 1949-1970  
(OVER-ALL) 1957-1970

AUGUST

AREA 0021 S. GULF OF OMAN  
23.1N 59.3E

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE  
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	OR >10	OR >5	OR >2	OR >1	OR >1/2	OR >1/4	OR >5000	OR >0
OR >6500	.3	1.2	1.2	1.2	1.2	1.2	1.2	1.2
OR >5000	.7	2.2	2.2	2.2	2.2	2.2	2.2	2.2
OR >3500	2.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
OR >2000	2.9	7.2	7.6	7.6	7.6	7.6	7.6	7.6
OR >1000	3.4	10.1	10.4	10.4	10.4	10.4	10.4	10.4
OR >600	3.7	11.5	12.4	12.5	12.5	12.5	12.5	12.5
OR >300	3.6	12.4	13.3	13.6	13.6	13.6	13.6	13.6
OR >150	3.8	12.4	13.3	13.6	13.6	13.6	13.6	13.6
OR >0	3.8	12.8	13.7	14.0	14.0	14.0	14.0	14.0
TOTAL	29	98	105	107	107	107	107	107

TOTAL NUMBER OF OBS: 796

PCT FREQ NH <5/8: 86.0

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
62.4	9.3	6.1	4.1	2.3	2.3	2.2	3.3	3.2	5.4	.2	814

PERIOD: (PRIMARY) 1949-1970  
(OVER-ALL) 1907-1970

AUGUST

AREA 0021 S. GULF OF OMAN  
23.1N 59.3E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF  
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NO PCP	.0	.0	.0	.0	.1	.1	.0	.0	.0	.0	.2	.2
TOT %	.0	.0	.0	.0	.1	.1	.0	.0	.0	.0	.2	.2
PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NO PCP	.0	.1	.1	.3	.5	.2	.0	.0	.0	.0	1.3	1.3
TOT %	.0	.1	.1	.3	.5	.2	.0	.0	.0	.0	1.3	1.3
PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NO PCP	.0	.2	1.1	1.2	2.8	1.8	.1	.0	.0	.3	7.5	7.5
TOT %	.0	.2	1.1	1.2	2.8	1.8	.1	.0	.0	.3	7.5	7.5
PCP	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	.1
NO PCP	.9	2.8	5.1	9.5	13.2	9.9	.6	1.4	.0	3.6	45.8	45.8
TOT %	.9	2.8	5.1	9.5	13.2	9.9	.6	1.4	.0	3.6	45.9	45.9
PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NO PCP	1.2	1.7	5.5	13.0	12.7	5.9	.9	1.2	.0	3.1	5.2	5.2
TOT %	1.2	1.7	5.5	13.0	12.7	5.9	.9	1.2	.0	3.1	5.2	5.2
TOT OBS	2.1	4.8	11.6	23.0	29.3	17.9	1.6	2.6	.0	7.0	100.0	872
TOT PCT	2.1	4.8	11.6	23.0	29.3	17.9	1.6	2.6	.0	7.0	100.0	872

PERIOD: (PRIMARY) 1949-1970  
(OVER-ALL) 1907-1970

AUGUST

AREA C021 S. GULF OF OMAN  
23.1N 59.3E

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED  
WITH VARYING VALUES OF VISIBILITY

VSRY (NM)	SPO KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	.1
	4-10	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	.1
	11-21	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.1	.1	.1	.0	.0	.0	.0	.3	.3
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1<2	0-3	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1	.1
	4-10	.0	.1	.2	.1	.2	.0	.0	.0	.0	.0	.6	.6
	11-21	.0	.0	.0	.2	.3	.3	.0	.0	.0	.0	.8	.8
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.1	.2	.3	.5	.3	.1	.0	.0	.0	1.5	1.5
2<5	0-3	.1	.1	.2	.1	.0	.1	.0	.1	.0	.3	.8	.8
	4-10	.0	.1	1.0	.9	.8	.4	.0	.0	.0	.0	3.2	3.2
	11-21	.0	.0	.1	.3	1.6	1.2	.1	.0	.0	.0	3.2	3.2
	22+	.0	.0	.0	.0	.5	.4	.0	.0	.0	.0	.9	.9
	TOT %	.1	.2	1.3	1.3	2.9	2.1	.1	.1	.0	.3	8.2	8.2
5<10	0-3	.2	.3	.7	.7	.5	.1	.1	.1	.0	3.4	6.2	6.2
	4-10	.6	2.3	3.0	5.0	4.1	2.4	.3	1.3	.0	.0	19.4	19.4
	11-21	.0	.0	1.2	2.9	6.6	5.4	.2	.1	.0	.0	16.4	16.4
	22+	.0	.0	.0	.1	1.5	1.4	.1	.0	.0	.0	3.1	3.1
	TOT %	.8	2.6	4.9	8.7	12.7	9.9	.6	1.5	.0	3.4	45.1	45.1
10+	0-3	.4	.5	.7	1.4	.3	.0	.1	.3	.0	2.8	6.5	6.5
	4-10	.6	1.0	3.8	8.6	5.4	2.0	.6	1.0	.0	.0	23.0	23.0
	11-21	.2	.3	1.0	2.7	5.8	3.6	.0	.1	.0	.0	13.8	13.8
	22+	.0	.0	.1	.0	.8	.6	.0	.0	.0	.0	1.5	1.5
	TOT %	1.2	1.8	5.5	12.7	12.3	6.2	.6	1.4	.0	2.8	44.8	44.8
TOT OBS		2.1	4.7	11.9	23.2	28.5	18.6	1.6	3.0	.0	6.5	100.0	973

PERIOD: (PRIMARY) 1949-1970  
(OVERALL) 1907-1970

AUGUST

AREA 0021 S. GULF OF OMAN  
23.1N 59.3E

TABLE 10  
PERCENT FREQUENCY OF CEILING HEIGHTS (FEET) NH >4/8) AND  
OCCURRENCE OF NH <5/8 <5/8 HOUR

HOUR (GMT)	000 1.49	100 2.09	200 2.1	300 5.9	400 9.9	500 19.9	600 39.9	700 49.9	800 59.9	900 69.9	1000 79.9	1100 89.9	1200 99.9	1300 109.9	1400 119.9	1500 129.9	1600 139.9	1700 149.9	1800 159.9	1900 169.9	2000 179.9	2100 189.9	2200 199.9	2300 209.9	2400 219.9	TOTAL OBS	TOTAL NH <5/8 ANY HGT	TOTAL OBS
00003	.0	.0	.0	2.1	1.0	2.6	1.6	5.8	1.6	.0	.5	15.2	84.8	191														
06009	.0	.0	.0	.9	4.2	4.7	2.3	1.4	.5	.5	.9	15.4	84.6	214														
12015	.9	.0	.0	.5	1.9	1.4	2.3	1.4	1.9	.9	.9	12.1	87.9	214														
18021	.5	.0	.0	.5	1.1	2.2	3.8	2.2	.0	.0	.5	10.8	89.2	186														
TOT	.3	.0	.0	.8	17	22	20	21	8	.5	6	108	697	805														
PCT	.4	.0	.0	1.0	2.1	2.7	2.5	2.6	1.0	.4	.7	13.4	86.6	100.0														

TABLE 11

PERCENT FREQUENCY VARY (NH) BY HOUR

HOUR (GMT)	<1/2	1/2-1	1-2	2-5	5-10	10+	TOTAL OBS
00003	.0	.0	1.7	6.8	42.4	49.2	177
06009	1.0	.0	.0	6.4	50.0	42.6	204
12015	.0	.0	1.5	6.9	48.8	42.9	203
18021	.0	.0	.5	7.1	39.0	53.3	182
TOT	2	0	7	52	347	358	766
PCT	.3	.0	.9	6.8	45.3	46.7	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VS87 (NH) AND/OR  
CEILING HGT (FEET) NH >4/8) BY HOUR

HOUR (GMT)	<150 <500	<600 <1	<1000 <5	<1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	.0	2.3	10.7	11.9	77.4	177
06009	.0	2.0	11.8	10.8	77.5	204
12015	1.0	1.5	10.8	9.4	79.8	203
18021	.5	1.1	9.3	8.2	82.4	182
TOT	3	13	82	77	607	766
PCT	.4	1.7	10.7	10.1	79.2	100.0

## AUGUST

PERIOD: (PRIMARY) 1969-1970  
(OVER-ALL) 1907-1970AREA 0021 S. GULF OF OMAN  
23.1N 59.3E

TABLE 13

TEMP	PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP										TOTAL OBS	PCT FREQ
	0-25	30-39	40-49	50-59	60-69	70-79	80-89	90-100				
95/99	.0	.0	.0	.0	.3	.1	.4	.0	.0	.0	6	.8
90/94	.0	.0	.0	.0	.0	3.1	5.2	3.8	.7	.0	91	12.9
85/89	.0	.0	.0	.0	.1	.3	8.2	14.4	3.2	.0	186	26.3
80/84	.0	.0	.0	.0	.0	.1	5.4	13.6	9.3	.0	201	28.4
75/79	.0	.0	.0	.0	.0	.0	1.0	10.7	10.0	.0	154	21.3
70/74	.0	.0	.0	.0	.0	.0	.1	1.6	8.2	.0	70	9.9
TOTAL	.0	.0	.0	.0	.3	26	144	312	223	.0	708	100.0
PCT	.0	.0	.0	.0	.4	3.7	20.3	44.1	31.5			

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP									
N	NE	E	SE	S	SW	W	NW	VAR	CALM
.1	.9	.2	*	.1	.0	.0	.1	.0	.1
.2	.9	2.8	3.4	1.9	.6	.2	1.6	.0	1.3
.7	2.2	5.3	8.9	3.8	1.7	.4	.6	.0	2.7
.2	1.5	3.1	8.8	8.8	3.3	.4	.6	.0	1.7
.0	.1	.2	1.8	11.1	8.0	.0	.0	.0	.6
.0	*	.2	.1	4.5	4.6	.2	.1	.0	.0
.9	34	83	162	214	129	8	21	0	45
1.3	4.8	11.8	23.0	30.3	18.2	1.2	3.0	.0	6.4

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEC F) BY HOUR									
HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	93	92	89	82	72	71	71	81.0	251
06009	94	94	92	84	74	72	72	83.8	262
12015	99	97	94	84	75	74	74	85.1	247
18021	92	91	90	82	73	72	70	81.9	241
TOT	95	94	92	84	73	72	70	83.0	1021

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR										
HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.0	1.6	9.0	44.1	43.2	88	188		
06009	.0	.0	5.8	27.3	48.6	20.2	83	183		
12015	.0	1.0	8.7	31.3	43.6	15.4	81	195		
18021	.0	.6	1.7	14.2	39.8	43.8	87	176		
TOT	0	3	30	153	327	229	84	742		

PERIOD: (PRIMARY) 1949-1970  
(OVER-ALL) 1901-1970

AUGUST

AREA 0021 S. GULF OF OMAN  
23.1N 59.3E

TABLE 17

801 FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)  
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	59	73	77	81	85	89	93	TOT	W FOG	WD FOG
14/16	.0	.0	.0	.0	.1	.1	.3	4	.0	.5
11/13	.0	.1	.0	.3	.1	.3	.0	6	.0	.8
9/10	.0	.0	.1	.4	.4	.5	.3	17	.0	1.9
7/8	.0	.1	.8	.8	.5	.6	.8	28	.0	3.6
6	.0	.1	.5	.0	.6	1.0	.3	20	.1	2.4
5	.0	.3	.6	.9	1.2	1.4	.5	42	.3	5.0
4	.0	.8	1.3	.9	.6	.3	.5	36	.0	4.6
3	.0	.6	.5	.9	1.4	1.2	.6	41	.0	5.3
2	.0	1.9	1.8	2.2	1.5	2.3	.1	77	.1	9.8
1	.3	2.1	.9	.8	1.8	1.9	.1	61	.0	7.9
0	.4	1.5	1.5	1.7	4.8	2.3	.0	95	.4	11.9
-1	.6	1.0	1.8	1.7	3.1	2.1	.0	69	.8	9.4
-2	.6	1.3	1.5	3.5	2.7	.5	.0	79	.4	6.4
-3	.5	1.2	.8	1.7	2.2	.5	.0	53	.3	7.2
-4	.1	1.5	1.4	2.8	1.5	.0	.0	58	.1	2.6
-5	.0	.4	.8	.8	.6	.0	.0	21	.0	3.6
-6	.0	.5	1.0	1.3	.0	.0	.0	28	.0	1.0
-7/-8	.1	.8	.6	1.7	.4	.0	.0	8	.0	.4
-9/-10	.1	.4	.3	.3	.0	.0	.0	3	.0	.1
-11/-13	.0	.0	.4	.0	.0	.0	.0	1	.0	.1
-14/-16	.1	.0	.0	.0	.0	.0	.0	776	.23	750
TOTAL	20	116	131	174	182	120	27	100.0	3.0	96.6
PCT	2.6	14.9	16.9	22.4	23.5	15.5	3.5			



PER:001 (PRIMARY)  
(OVER-ALL) 1763-1970

AUGUST  
TABLE 18

AREA 0021 S. GULF OF OMAN  
23.1N 59.3E

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N										NE										PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+								
<1	.0	.3	.0	.0	.0	.0	.3	.4	.1	.0	.0	.0	.0	.0							
1-2	.0	1.4	.0	.0	.0	.0	1.4	.0	3.4	.1	.0	.0	.0	.0							
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0							
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0							
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0							
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0							
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0							
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0							
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0							
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0							
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0							
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0							
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0							
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0							
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0							
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0							
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0							
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0							
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0							
TOT PCT	.0	1.7	.0	.0	.0	.0	1.7	.4	3.5	.1	.0	.0	.0	.0							

HGT	E										SE										PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+								
<1	.0	1.7	.0	.0	.0	.0	1.7	.9	1.8	.0	.0	.0	.0	.0							
1-2	.4	4.6	1.1	.0	.0	.0	6.1	.0	7.5	1.7	.0	.0	.0	.0							
3-4	.0	.0	1.1	.0	.0	.0	1.8	.0	4.7	.8	.0	.0	.0	.0							
5-6	.0	.3	1.1	.0	.0	.0	1.4	.0	.7	1.2	.0	.0	.0	.0							
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.0	.0							
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0							
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0							
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0							
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0							
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0							
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0							
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0							
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0							
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0							
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0							
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0							
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0							
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0							
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0							
TOT PCT	.4	7.4	3.3	.0	.0	.0	11.1	.9	13.1	4.6	.0	.0	.0	.0							

PERIOD: (PRIMARY)  
(OVER-ALL) 1563-1970

AUGUST

TABLE 18

AREA 0021 S. GULF OF OMAN  
23.1N 59.3E

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.9	2.8	1.4	.0	.0	.0	4.1	.0	.7	.0	.0	.0	.0	.7
1-2	.4	5.9	3.6	.0	.0	.0	9.8	.0	3.7	.9	.0	.0	.0	4.6
3-4	.0	2.4	6.5	.0	.0	.0	8.9	.0	.0	4.3	.4	.0	.0	4.8
5-6	.0	1.1	6.1	2.1	.0	.0	9.2	.0	.1	3.5	1.8	.0	.0	5.4
7	.0	.4	2.4	.8	.0	.0	3.6	.0	.0	2.0	.1	.0	.0	2.1
8-9	.0	.3	1.1	.3	.0	.0	1.7	.0	.1	.7	.0	.0	.0	1.7
10-11	.0	.0	.3	.9	.0	.0	1.2	.0	.4	.1	.0	.0	.0	.5
12	.0	.0	.0	.3	.0	.0	.5	.0	.0	.0	.1	.0	.0	.1
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.3	12.8	20.4	4.3	.0	.0	38.9	.0	5.0	11.4	3.5	.0	.0	19.9

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	.3	.0	.0	.0	.0	.8	.0	.0	.0	.0	.0	.0	.0
1-2	.0	1.0	.0	.0	.0	.0	1.0	.0	.5	.4	.0	.0	.0	1.0
3-4	.0	.0	.3	.0	.0	.0	.3	.0	.4	.0	.0	.0	.0	.4
5-6	.0	.0	.3	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	1.3	.7	.0	.0	.0	2.4	.0	1.0	.4	.0	.0	.0	1.4

PERIOD (PRIMARY)  
(OVER-ALL) 1963-1970

AUGUST

AREA 0021 S. GULF OF OMAN  
23.1N 59.3E

TABLE 18 (CONT)

WIND SPEED (KTS) VS SEA HEIGHT (FT)								TOT OBS
HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	11.1	7.5	.4	.0	.0	.0	19.0	
1-2	.8	25.3	7.1	.0	.0	.0	33.2	
3-4	.0	7.5	11.9	.4	.0	.0	19.8	
5-6	.0	2.0	11.1	3.6	.0	.0	16.6	
7	.0	.4	4.3	.3	.0	.0	5.5	
8-9	.0	.4	2.0	1.2	.0	.0	3.6	
10-11	.0	.4	.4	.8	.0	.0	1.6	
12	.0	.4	.0	.4	.0	.0	.8	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	11.9	43.9	37.2	7.1	.0	.0	100.0	253

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	5.7	15.7	15.1	5.3	.8	.5	.5	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	289
6-7	.0	1.2	6.2	8.5	3.0	.8	.8	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	136
8-9	.0	.5	.5	2.0	2.9	1.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	50
10-11	.0	.6	.5	.6	1.4	1.2	.3	.3	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	34
12-13	.0	.0	.2	.3	.0	.2	.2	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7
>13	.0	.0	.0	.0	.0	.0	.3	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3
TOT	11.9	4.5	2.3	.6	1.2	.6	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	143
TOTAL	117	149	163	114	61	33	16	3	4	2	0	0	0	0	0	0	0	0	0	0	602
PCT	17.7	22.5	24.6	17.2	9.2	5.0	2.4	.5	.6	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0

SEPTEMBER

AREA 0021 S. GULF OF MEX  
29.1N 99.2E

PERIOD: (PRIMARY) 1950-1970  
(OVER-ALL) 1865-1970

TABLE 1

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	RAIN	RAIN SHWR	QZL	PRECIPITATION TYPE			HAIL	PCT FREQ PCPN AT 08 TIME	TOTAL PCPN OBS	THOR LTNG	OTHER WEATHER PHENOMENA						TOTAL OBS
				FRZG	SNOW	OTHER FRZN PCPN					FOG	SMOKE	HAZE	BLWG	OUST	NO SIG WEA	
N	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.3	.0	.0	.0	2.4	20
NE	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.3	.0	.0	.1	2.7	30
E	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.8	.0	.0	.1	9.6	78
SE	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	1.3	.0	.0	.1	23.1	181
S	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	2.2	.0	.0	.5	24.5	201
SW	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	1.9	.0	.0	.4	14.6	128
W	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.4	.0	.0	.2	2.7	26
NW	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.2	.0	.0	.0	2.1	24
VAR	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.8	.0	.0	.1	5.7	49
TOT OBS	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	61	.0	.0	11	662	740
TOT PCT	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	8.2	.0	.0	1.5	89.5	100.0

TABLE 2

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	RAIN	RAIN SHWR	QZL	PRECIPITATION TYPE			HAIL	PCT FREQ PCPN AT 08 TIME	TOTAL PCPN OBS	THOR LTNG	OTHER WEATHER PHENOMENA						TOTAL OBS
				FRZG	SNOW	OTHER FRZN PCPN					FOG	SMOKE	HAZE	BLWG	OUST	NO SIG WEA	
0000Z	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	1.1	4.5	.0	.0	.0	94.3	176
0600Z	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.5	12.4	.0	.0	1.5	85.6	202
1200Z	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.5	10.2	.0	.0	1.9	86.9	213
1800Z	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	1.1	4.2	.0	.0	2.1	92.6	189
TOT	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.6	64	.0	.0	11	699	780
PCT	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.8	8.2	.0	.0	1.4	89.6	100.0

SEPTEMBER

PERIOD: (PRIMARY) 1950-1970  
(OVER-ALL) 1865-1970

TABLE 3

AREA 0021, S. GULF OF OMAN  
23.1N 59.3E

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)										HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPO	00	03	06	09	12	15	18	21	
N	.8	1.7	.1	.0	.0	.0	22	2.7	5.2	2.7	.0	3.8	3.4	2.2	10.0	.6	5.0	
NE	1.2	3.3	.1	.0	.0	.0	38	4.6	5.4	4.0	11.8	3.4	1.7	7.6	3.3	2.4	10.0	
E	1.6	7.7	1.1	.0	.0	.0	86	12.7	6.8	9.8	5.9	11.8	12.9	14.5	8.3	6.0	.0	
SE	2.7	16.6	5.4	.0	.0	.0	206	24.7	8.2	23.3	11.8	20.5	21.6	27.0	30.0	28.2	30.0	
S	1.7	12.7	12.2	.6	.0	.0	27.6	27.2	10.8	26.0	35.3	29.3	23.9	23.2	22.0	32.0	20.0	
SW	.7	8.6	6.8	.8	.0	.0	141	17.0	11.0	18.8	11.8	17.5	25.9	12.6	10.0	19.5	21.3	
W	.7	2.3	.0	.0	.0	.0	31	3.7	7.8	4.0	5.9	3.8	.0	3.7	.0	4.4	2.8	
NW	.6	2.4	.1	.0	.0	.0	25	3.0	6.1	1.4	.0	3.3	3.4	5.3	6.7	1.1	5.0	
VAR	.0	.0	.0	.0	.0	.0	56	.0	.0	9.8	17.6	6.5	.0	.0	.0	.0	.0	
CALM	6.7	.0	.0	.0	.0	.0	834	6.7	.0	173	17	184	10.3	3.9	6.7	5.6	5.0	
TOT OBS	140	461	221	12	0	0	834	100.0	8.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	
TOT PCT	15.8	55.3	26.5	1.4	.0	.0	100.0											

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)						TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-6	7-16	17-27	28-40	41+	00				03	06	09	12	15	18	21	
N	1.9	.7	1.0	.0	.0	.0	22	2.7	5.2	2.3	.0	3.8	3.4	2.2	10.0	.6	5.0
NE	3.1	1.3	.0	.0	.0	.0	38	4.6	5.4	4.7	4.7	3.2	3.2	7.1	3.2	2.4	10.0
E	5.8	4.6	.0	.0	.0	.0	86	10.3	6.8	9.5	9.5	12.0	12.0	13.7	8.3	6.0	.0
SE	9.4	14.6	.7	.0	.0	.0	206	24.7	8.2	22.2	22.2	20.7	27.4	28.2	30.0	28.2	30.0
S	6.3	16.5	4.4	.0	.0	.0	276	27.2	10.8	26.8	26.8	28.2	23.4	30.0	30.0	28.2	30.0
SW	4.3	9.7	1.0	.0	.0	.0	141	17.0	11.0	18.2	18.2	18.7	12.2	19.7	19.5	21.3	21.3
W	1.5	1.9	.3	.0	.0	.0	31	3.7	7.8	4.2	4.2	3.3	3.2	4.3	4.4	2.8	2.8
NW	1.9	1.0	.1	.0	.0	.0	25	3.0	6.1	1.3	1.3	3.3	3.5	5.3	6.7	1.1	5.0
VAR	.0	.0	.0	.0	.0	.0	56	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	6.7	.0	.0	.0	.0	.0	834	6.7	8.4	.0	.0	7.0	7.0	4.3	5.6	5.6	5.6
TOT OBS	342	421	71	0	0	0	834	100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
TOT PCT	41.0	50.5	8.5	.0	.0	.0	100.0										

SEPTEMBER

PERIOD: (PRIMARY) 1950-1970  
(OVER-ALL) 1965-1970

APEA 0021 S. GULF OF DMAN  
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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GRT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47	48+				
0000	12.5	11.1	52.6	24.2	1.6	0	0	0	8.3	100.0	190
0600	7.0	8.5	56.3	25.8	2.3	0	0	0	8.5	100.0	213
1200	4.3	11.6	57.9	25.3	1.4	0	0	0	8.2	100.0	233
1800	5.6	9.1	53.5	30.0	1.0	0	0	0	8.7	100.0	198
TOT	56	84	461	221	12	0	0	0	8.4		534
PCT	6.7	10.1	55.3	26.5	1.4	0	0	0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)  
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8-9	10-12	TOTAL OBS	MEAN	
							CLOUD COVER	
N	2.1	0	3	0	19	24	7	
NE	3.7	3	0	0	27	33	5	
E	8.3	1.0	7	0	69	87	1.2	
SE	21.9	2.3	1.3	0	174	199	2	
S	24.8	1.3	1.5	0	188	215	7	
SW	14.9	1.5	1.1	0	114	136	1.0	
W	3.3	1	2	0	25	31	1.0	
NW	2.3	1	0	0	17	20	7	
VAR	0	0	0	0	0	0	0	
CALM	5.9	1	0	0	0	6	0	
TOT OBS	58	40	37	0	675		1.4	
TOT PCT	37.3	5.9	5.5	1.3	100.0		1.8	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT) NH >4/8  
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8-9	10-12	TOTAL OBS	MEAN	
							CLOUD COVER	
N	2.1	0	3	0	19	24	7	
NE	3.7	3	0	0	27	33	5	
E	8.3	1.0	7	0	69	87	1.2	
SE	21.9	2.3	1.3	0	174	199	2	
S	24.8	1.3	1.5	0	188	215	7	
SW	14.9	1.5	1.1	0	114	136	1.0	
W	3.3	1	2	0	25	31	1.0	
NW	2.3	1	0	0	17	20	7	
VAR	0	0	0	0	0	0	0	
CALM	5.9	1	0	0	0	6	0	
TOT OBS	58	40	37	0	675		1.4	
TOT PCT	37.3	5.9	5.5	1.3	100.0		1.8	

PERIOD: (PRIMARY) 1950-1970  
(OVER-ALL) 1865-1970

SEPTEMBER

AREA 0021 S. GULF OF OMAN  
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TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE  
OF CEILING HEIGHT (NH >4/8) AND VSBY (NH)

CEILING (FEET)	OR >10	OR >5	OR >2	VSBY (NH) OR >1	OR >1/2	OR >1/4	OR >50YD	OR >0
OR >6500	.3	.3	.4	.4	.4	.4	.4	.4
OR >5000	.4	.6	.7	.7	.7	.7	.7	.7
OR >3500	.8	1.0	1.1	1.1	1.1	1.1	1.1	1.1
OR >2000	1.4	1.6	1.7	1.7	1.7	1.7	1.7	1.7
OR >1000	2.0	2.3	2.6	2.6	2.6	2.6	2.6	2.6
OR >670	2.0	2.6	3.1	3.1	3.1	3.1	3.1	3.1
OR >500	2.0	2.8	3.1	3.1	3.1	3.1	3.1	3.1
OR >150	2.0	2.8	3.1	3.1	3.1	3.1	3.1	3.1
OR >0	2.0	2.8	3.4	3.4	3.4	3.4	3.4	3.4
TOTAL	14	20	24	24	24	24	25	25

TOTAL NUMBER OF OBS: 709

PCT FREQ NH <5/8: 96.5

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
7-11.5	11.5	6.1	2.8	1.5	1.0	1.3	.7	.4	.3	.3	719

PERIOD (PRIMARY) 1952-1970  
(OVER-ALL) 1853-1970

SEPTEMBER

AREA 0021 S. GULF OF OMAN  
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TABLE 8  
PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF  
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

WSSY (MM)	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
<1/2 NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1 NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2 NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
2<5 NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
5<10 NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT OBS	2.7	.1	10.6	24.6	47.3	17.3	3.3	3.3	.0	6.6	100.0	740
TOT PCT												



PERIOD: (PRIMARY) 1/30-1970  
(OVER-ALL) 1865-1970

SEPTEMBER

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23.1N 59.3E

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED  
WITH VARYING VALUES OF VISIBILITY

WSBY (NM)	SPO KTS	N	NE	E	SE	S	SW	W	NW	VAN	CALM	PCT TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.1	.1	.0	.0	.0	.3
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1
	4-10	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1
	11-21	.1	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.1	.0	.0	.1	.0	.0	.0	.1	.0	.1	.4
2<5	0-3	.0	.1	.0	.1	.0	.1	.0	.0	.0	.1	.5
	4-10	.0	.1	.1	.3	.1	.1	.1	.0	.0	.0	.9
	11-21	.0	.0	.0	.1	.5	.4	.0	.0	.0	.0	1.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.3	.1	.5	.7	.6	.1	.0	.0	.1	2.4
5<10	0-3	.1	.4	.3	.2	.4	.1	.0	.3	.0	.9	2.6
	4-10	.3	1.0	1.0	1.9	2.3	1.3	.2	.6	.0	.0	8.6
	11-21	.0	.0	.4	1.1	2.4	1.9	.1	.0	.0	.0	5.9
	22+	.0	.0	.0	.0	.1	.1	.0	.0	.0	.0	.3
	TOT %	.4	1.4	1.8	3.2	5.2	3.4	.3	.8	.0	.9	17.4
10+	0-3	.7	.8	1.4	2.2	1.3	.5	.7	.3	.0	5.7	13.5
	4-10	1.5	1.9	6.6	13.8	10.3	7.7	1.9	1.9	.0	.0	45.6
	11-21	.1	.1	.7	4.3	9.2	4.3	.5	*	.0	.0	19.4
	22+	.0	.0	.0	.0	.4	.6	.0	.0	.0	.0	1.0
	TOT %	2.3	2.8	8.7	20.3	21.2	13.1	3.1	2.3	.0	5.7	79.5
TOT OBS		2.8	4.4	10.5	24.1	27.0	17.3	3.8	3.2	.0	6.8	100.0
TOT PCT												794

SEPTEMBER

PERIOD: (PRIMARY) 1950-1970  
(OVER-ALL) 1865-1970

AREA 0021 S. GULF OF OMAN  
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TABLE 10  
PERCENT FREQUENCY OF CEILING HEIGHTS (FEET) NH > 4/8) AND  
OCCURRENCE OF < 5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	300 599	600 999	1000 1999	2000 3499	2500 4999	3000 5499	3500 7999	8000+	TOTAL	NH < 5/8 ANY HGT	TOTAL OBS
00003	.6	.0	.0	.0	.6	1.9	.6	.0	.6	.0	.0	4.4	95.6	160
06009	.0	.0	.0	.0	.0	1.6	.5	.5	.0	.5	.0	3.2	96.8	185
12015	.5	.0	.0	.0	.5	.0	.5	.0	.5	1.1	.0	3.2	96.8	189
18021	.5	.0	.0	.0	.0	1.1	.5	1.1	.0	.0	.0	3.3	96.7	184
TOT PCT	.3 .4	.0 .0	.0 .0	.0 .0	.2 .3	.8 1.1	.4 .6	.3 .4	.2 .3	.3 .4	.0 .0	.25 3.5	693 96.5	713 100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.6	.0	.0	1.9	20.3	77.2	158
06009	.0	.0	.5	1.6	15.8	82.1	184
12015	.0	.0	.5	3.2	15.4	80.9	188
18021	.0	.0	.0	2.8	11.7	85.5	179
TOT PCT	.1 .1	.0 .0	.2 .3	.17 2.4	.11 15.7	.578 81.5	709 100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR  
CEILING HGT (FEET) NH > 4/8) BY HOUR

HOUR (GMT)	<150 <500	<600 <1	<1000 <5	1000+ AND 5+	NH < 5/8 AND 5+	TOTAL OBS
00003	.6	.6	3.2	2.5	94.3	158
06009	.0	.0	2.2	3.3	94.6	184
12015	.5	.5	4.3	1.6	94.1	188
18021	.6	.6	2.8	2.8	94.4	179
TOT PCT	.3 .4	.3 .4	.22 3.1	.18 2.5	.669 94.4	709 100.0

SEPTEMBER

PERIOD: (PRIMARY) 1950-1970  
(CHECK-ALL) 1865-1970

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TABLE 13

		PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP										TOTAL	
TEMP F		0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	PCT FREQ		OBS	
95/99	.0	.0	.0	.2	.2	.0	.0	.0	.0	1	.2	48	8.2
90/94	.0	.0	.0	.2	.7	2.2	3.6	1.0	.5	154	26.3	221	39.0
85/89	.0	.0	.0	.0	.5	2.9	11.0	9.8	2.2	137	23.6	13	2.2
80/84	.0	.0	.0	.0	.2	1.5	7.1	21.0	9.5	591	100.0		
75/79	.0	.0	.0	.0	.0	.3	1.7	11.2	10.3				
70/74	.0	.0	.0	.0	.0	.0	.0	.0	2.2				
TOTAL	.0	.0	.0	.2	1.5	7.1	23.4	43.0	24.8				
PCT	.0	.0	.0	.2	1.5	7.1	23.4	43.0	24.8				

TABLE 14

		PERCENT FREQUENCY OF WIND DIRECTION BY TEMP										TOTAL	
TEMP F		N	NE	E	SE	S	SW	W	NW	VAR	CALM	OBS	
95/99	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	48	8.2
90/94	.0	.2	.3	.6	1.9	1.1	.5	.5	.9	.0	.0	221	39.0
85/89	.0	1.9	2.1	3.7	8.4	3.9	1.4	1.3	1.5	.0	.0	137	23.6
80/84	.0	.9	1.1	5.1	11.9	11.4	5.0	1.7	.6	.7	.5	591	100.0
75/79	.0	.0	.4	.5	3.3	11.2	7.0	.7	.0	.0	.0		
70/74	.0	.0	.0	.0	.0	.4	1.4	.4	.0	.0	.0		
TOTAL	.0	2.5	3.9	10.0	25.4	28.0	16.0	4.6	3.0	.0	.0		
PCT	.0	2.5	3.9	10.0	25.4	28.0	16.0	4.6	3.0	.0	.0		

TABLE 15

		MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR										TOTAL	
HOUR (GMT)		MAX	99%	95%	50%	5%	1%	MIN	MEAN	OBS		OBS	
00203	91	88	87	81	73	71	70	80.7	198				
06209	93	93	91	84	76	74	72	83.9	222				
12215	97	93	92	85	77	75	74	84.6	236				
18221	90	89	88	82	75	73	71	81.3	205				
TOT	97	93	90	83	75	72	70	82.7	861				

TABLE 16

		PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR										TOTAL	
HOUR (GMT)		0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	OBS	OBS	
00203	.0	.0	.7	2.9	7.3	44.5	44.5	44.5	87	137			
06209	.0	.0	2.4	11.3	33.3	33.3	33.3	33.3	79	138			
12215	.0	.0	3.0	9.6	33.1	33.1	33.1	33.1	79	166			
18221	.0	.0	.7	2.1	19.6	43.5	43.5	43.5	86	143			
TOT	0	0	11	42	149	263	263	263	83	614			

PERIOD: (PRIMARY) 1950-1970  
(OVER-ALL) 1865-1970

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (OEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)  
VS AIR-SEA TEMPERATURE DIFFERENCE (OEG F)

AIR-SEA TMP DIF	69	73	77	81	85	89	93	TOT	H	WD
	72	76	80	84	88	92	96		FOG	FOG
14/16	.0	.0	.0	.0	.1	.1	.0	2	.0	.3
11/13	.0	.0	.0	.1	.4	.1	.1	6	.0	.9
9/10	.0	.0	.0	.4	.6	.0	.1	8	.0	1.2
7/8	.0	.0	.1	1.3	.6	.4	.1	18	.0	2.7
6	.0	.1	.1	.3	.4	.6	.1	12	.0	1.8
5	.0	.3	.6	.7	.4	.9	.3	22	.0	3.3
4	.0	.3	.6	1.5	1.0	.9	.1	30	.0	4.5
3	.0	.6	1.2	.9	1.0	1.8	.3	39	.0	5.8
2	.0	.6	2.1	2.4	2.5	1.2	.0	59	.0	8.8
1	.0	.9	1.6	2.2	1.8	1.5	.0	54	.0	8.0
0	.0	1.9	2.1	4.5	5.4	.6	.1	98	.3	14.3
-1	.3	.7	1.8	4.5	3.6	.6	.0	75	.0	11.2
-2	.3	.7	1.6	4.2	1.6	.1	.0	58	.0	8.6
-3	.1	.6	2.1	3.0	2.1	.1	.0	54	.4	7.6
-4	.1	1.3	1.2	2.4	1.5	.0	.0	45	.1	6.6
-5	.0	.7	1.6	1.9	.3	.0	.0	23	.0	3.4
-6	.0	.7	1.6	.9	.4	.0	.0	31	.0	4.6
-7/-8	.0	.3	1.8	.9	.4	.0	.0	23	.0	3.4
-9/-10	.0	.1	.9	.4	.1	.0	.0	11	.0	1.6
-11/-13	.0	.0	.3	.1	.0	.0	.0	3	.0	.4
TOTAL	6	63	142	226	163	61	10	671	6	665
PCT	.9	9.4	21.2	33.7	24.3	9.1	1.3	100.0	.9	99.1

SEPTEMBER  
TABLE 1B

PERIOD (PRIMARY)  
(OVER-ALL) 1967-1970

AREA 0021 S. GULF OF OMAN  
23.1N 59.3E

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
HGT														
<1	.5	.7	.0	.0	.0	.0	.5	.8	.0	.0	.0	.0	.0	.8
1-2	.0	.0	.0	.0	.0	.0	.7	.0	1.2	.0	.0	.0	.0	1.2
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.5	.0	.0	.0	.0	.8
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	.7	.0	.0	.0	.0	1.2	.8	2.0	.0	.0	.0	.0	2.8

	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
HGT														
<1	.7	.7	.0	.0	.0	.0	1.3	2.1	2.8	.0	.0	.0	.0	4.9
1-2	1.2	8.4	.0	.0	.0	.0	9.3	.2	8.4	4.9	.0	.0	.0	13.5
3-4	.7	3.1	1.8	.0	.0	.0	5.2	.0	2.8	3.0	.0	.0	.0	5.8
5-6	.0	.7	.7	.0	.0	.0	1.3	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.5	12.8	2.5	.0	.0	.0	17.8	2.3	14.0	7.9	.0	.0	.0	24.2

SEPTEMBER  
TABLE :A

PERIOD: (PRIMARY)  
(OVER-ALL) 1963-1970

AREA 0021 S. GULF OF OMAN  
23.1N 59.3E

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S										SW			
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.5	1.8	.0	.0	.0	.0	2.3	.0	1.2	.0	.0	.0	.0	1.3
1-2	.0	7.4	4.6	.0	.0	.0	12.0	.0	6.4	.3	.0	.0	.0	6.7
3-4	.0	4.6	6.4	.0	.0	.0	11.0	.0	3.1	5.4	.0	.0	.0	8.6
5-6	.0	.7	4.4	.0	.0	.0	5.1	.0	.2	1.5	.0	.0	.0	2.3
7	.0	.0	.7	.0	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.7	.0	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-43	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
45-50	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	14.5	16.8	.0	.0	.0	31.7	.0	11.7	7.2	.0	.0	.0	18.9

HGT	W										NW			
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.5	.0	.0	.0	.0	.5	.7	1.3	.0	.0	.0	.0	2.0
3-4	.0	.0	.5	.0	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.5	.0	.0	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.0	.5	.0	.0	.0	1.5	.7	1.3	.0	.0	.0	.0	2.0

SEPTEMBER

PERIOD (PRIMARY)  
(OVER-ALL) 1963-1970

AREA 0021 S. GULF OF OMAN  
23.1N 59.3E

TABLE 18 (CONT)

WIND SPEED (KTS) VS SEA HEIGHT (FT)								TOT DBS
HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	12.5	6.5	.0	.0	.0	.0	19.0	
1-2	2.4	31.0	8.9	.0	.0	.0	42.3	
3-4	.6	13.1	15.5	.0	.0	.0	29.2	
5-6	.0	2.4	6.0	.0	.0	.0	8.3	
7	.0	.0	.6	.0	.0	.0	.6	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.6	.0	.0	.0	.6	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-73	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	15.5	53.0	31.5	.0	.0	.0	100.0	168

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+ TOTAL	MEAN HGT	
<6	6.8	24.2	10.3	4.8	.7	.2	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	312	2
6-7	.7	.2	4.5	6.8	1.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	78	4
8-9	.0	.6	.9	2.3	.7	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	28	5
10-11	.0	.0	.7	.5	.2	.0	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9	9
12-13	.0	.0	.0	.2	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	9
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	0
INDET	12.9	5.9	3.0	.5	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	129	1
TOTAL	114	171	157	84	23	5	2	2	1	0	0	0	0	0	0	0	0	0	0	559	3
PCT	20.4	30.6	28.1	15.0	4.1	.9	.4	.4	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

SEPTOBER

PERIOD: PRIMARY 1951-1970  
(OVER-ALL) 1905-1970

AREA 0021 S. GULF OF OMAN  
23.1N 59.3E

TABLE 1

### PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	RAIN	RAIN SHWR	DRZL	PRECIPITATION TYPE			HAIL	PCT FROD PCPN AT DB TIME	THDR 'TNG	OTHER WEATHER PHENOMENA					TOTAL OBS
				RAZG PCPN	SNOW	PRZN PCPN				FOG	SHRKE	HAZE	BLKG	CLUST	
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.4	.0	0.0	79	
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.1	.0	5.9	58	
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	7.8	73	
SE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.1	.0	18.6	174	
S	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.1	.0	13.5	126	
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.1	.0	9.8	95	
W	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.1	.0	6.4	61	
NW	.0	.0	.0	.0	.0	.0	.0	.0	.1	.2	.0	.0	10.1	94	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.3	.4	.1	.0	15.9	180	
TOT OBS	.0	.0	.0	.0	.0	.0	.0	.0	.3	.24	1.0	.876	913	913	
TOT PCT	.0	.0	.0	.0	.0	.0	.0	.0	.3	2.6	1.1	95.9	100.0	100.0	

TABLE 2

### PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY HOUR

[illegible]



OCTOBER

PERIOD: (PRIMARY) 1931-1970  
(OVER-ALL) 1906-1970

AREA 0021 S. GULF OF OMAN  
23.1N 59.3E

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)					48+	TOTAL URS	PCT FREQ	MEAN SPO	HOUR (GMT)					15	18	21
	0-3	4-10	11-21	22-33	34-47					00	03	06	09	12			
NE	2.0	5.5	.9	.0	.0	.0	8.4	8.5	6.3	8.5	2.9	7.0	.0	12.4	.0	7.1	12.5
E	2.1	3.2	.9	.1	.0	.0	6.4	6.4	6.4	3.9	5.9	6.6	14.0	9.5	.0	5.0	15.0
SE	2.3	5.5	.6	.0	.0	.0	8.4	8.4	5.8	20.0	20.0	6.0	10.4	13.0	.0	7.5	15.0
S	3.4	13.1	2.2	.0	.0	.0	19.0	19.0	6.9	18.2	20.6	16.0	12.5	19.3	7.7	23.0	18.8
SW	2.2	19.1	2.9	.1	.0	.0	14.2	14.2	7.8	17.6	17.6	12.0	25.0	12.9	15.4	15.2	18.8
W	1.4	5.5	3.0	.1	.0	.0	10.1	10.1	8.6	5.9	5.9	13.0	8.2	4.7	11.5	10.5	5.0
NW	1.8	3.8	.8	.0	.0	.0	6.4	6.4	6.2	10.3	10.3	9.5	2.1	5.5	7.7	4.7	12.5
VAR	2.4	6.5	1.4	.0	.0	.0	10.2	10.3	6.9	8.9	10.3	11.2	14.6	12.3	7.7	7.7	13.5
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT OBS	16.8	52.6	12.8	3	.0	.0	168	16.8	5.8	22.4	5.9	17.9	12.5	10.4	30.8	18.4	.0
TOT PCT	34.5	52.5	12.8	.3	.0	.0	100.2	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL DPS	PCT FREQ	MEAN SPO	OC			HOUR (GMT)					
	0-6	7-16	17-27	28-40	41+				00	03	06	09	12	15	18	21	
N	5.1	3.4	.0	.0	.0	8.4	8.5	6.3	8.1	6.4	11.8	7.6					
NE	3.9	2.4	.1	.0	.0	6.4	6.4	6.4	4.1	7.3	9.0	5.0					
E	6.1	2.1	.2	.0	.0	8.4	8.4	5.8	6.6	6.4	12.7	8.2					
SE	10.4	8.2	.4	.0	.0	19.0	19.0	6.9	18.2	15.5	19.3	22.6					
S	6.2	7.6	.5	.0	.0	14.2	14.2	7.8	14.8	13.1	13.0	16.4					
SW	4.3	5.0	.7	.0	.0	10.1	10.1	8.6	12.4	12.6	5.0	10.0					
W	3.9	2.3	.2	.0	.0	6.4	6.4	6.2	5.3	8.8	5.6	5.4					
NW	5.3	4.7	.2	.0	.0	10.2	10.2	5.9	5.0	11.5	12.1	8.1					
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0					
CALM	16.8	35.8	2.3	.0	.0	16.8	16.8	.0	21.3	17.5	11.5	16.7					
TOT OBS	62.1	35.7	2.3	.0	.0	100.2	100.2	5.8	25.8	27.5	25.3	21.6					
TOT PCT	62.0	35.7	2.3	.0	.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0					

PERIOD: (PRIMARY) 1951-1970  
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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47	48+			
0000	21.3	17.4	48.6	12.4	.0	.0	.0	5.5	100.0	258
0600	17.5	17.5	47.3	17.1	.7	.0	.0	6.0	100.0	275
1200	11.5	13.4	63.2	11.5	.4	.0	.0	6.3	100.0	253
1800	16.7	23.1	50.9	9.3	.0	.0	.0	5.3	100.0	216
TOT	168	177	526	128	3	0	0	5.8		1002
PCT	16.8	17.7	52.5	12.8	.3	.0	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (HEIGHTS)  
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8-10	NBSCD	TOTAL OBS	MEAN CLOUD COVS	
N	9.7	.0	.2	.1	.1	76	.4	
NE	5.7	.5	.1	.0	.0	53	.5	
E	7.0	.4	.0	.0	.0	62	.5	
SE	18.5	.8	.1	.0	.0	163	.3	
S	12.8	.2	.0	.0	.0	109	.1	
SW	9.3	.4	.0	.0	.0	84	.5	
W	6.2	.0	.0	.0	.0	52	.1	
NW	10.9	.1	.0	.0	.0	92	.1	
VAR	.0	.0	.0	.0	.0	0	.0	
CALM	17.2	.4	.0	.0	.0	148	.1	
TOT OBS	812	23	7	1	1	843	.3	
TOT PCT	86.3	2.7	.8	.1	.1	100.0		

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT) NH >4/8)  
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WIND DIR	000	150	300	600	999	1000	2000	3500	5000	6500	8000+	NH <5/8	ANY HGT	TOTAL OBS
N	.0	.0	.0	.0	.0	.1	.1	.1	.0	.0	.0	.0	.0	76
NE	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	53
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	62
SE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	163
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	109
SW	.0	.0	.1	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	84
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	52
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	92
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	148
TOT OBS	0	0	1	0	0	2	2	0	0	0	0	0	0	843
TOT PCT	.0	.0	.1	.0	.0	.2	.2	.0	.0	.0	.0	.0	.0	100.0

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TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE  
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	OR		OR		OR		OR		OR		OR	
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>50	>50YD	>50	>50YD	>50
OR >4500	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
OR >5000	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
OR >3500	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
OR >2000	.1	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2
OR >1000	.3	.5	.5	.5	.5	.5	.5	.5	.5	.5	.5	.5
OR >600	.3	.5	.5	.5	.5	.5	.5	.5	.5	.5	.5	.5
OR >300	.3	.6	.6	.6	.6	.6	.6	.6	.6	.6	.6	.6
OR >150	.3	.6	.6	.6	.6	.6	.6	.6	.6	.6	.6	.6
OR >0	.3	.6	.6	.6	.6	.6	.6	.6	.6	.6	.6	.6
TOTAL	3	5	5	5	5	5	5	5	5	5	5	5

TOTAL NUMBER OF OBS: 386

PCT FREQ NH <5/81 99.4

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	DBSCO	TOTAL
	0	1	2	3	4	5	6	7	8	DBSCO	OBS
84.5	10.5	3.0	.8	.8	.8	.3	.0	.2	.0	.0	914

PERIOD (PRIMARY) 1951-1970  
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TABLE 8  
PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF  
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	N	NE	E	SE	S	SW	W	NW	VAR	LALH	PCT	TOTAL OBS
PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
NO PCP	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	
TOT %	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	
PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
NO PCP	.9	1.1	.5	.5	.8	1.3	1.1	.6	.0	1.0	7.9	
TOT %	.9	1.1	.5	.5	.8	1.3	1.1	.6	.0	1.0	7.9	
PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
NO PCP	.7	5.3	7.5	18.5	13.0	9.1	5.6	9.8	.0	15.2	91.8	
TOT %	.7	5.3	7.5	18.5	13.0	9.1	5.6	9.8	.0	15.2	91.8	
TOT OBS	8.7	6.4	8.0	19.1	13.9	10.4	6.7	10.4	.0	16.4	100.0	913

PERIOD: (PRIMARY) 1951-1970  
(OVER-ALL) 1906-1970

DTY08R

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED  
WITH VARYING VALUES OF VISIBILITY

VSRY (NM)	SPD KTS	N	NE	E	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5<10	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10+	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT OBS		8.5	6.5	8.3	19.0	14.1	10.1	6.5	10.5	.0	15.5	100.0
TOT PCT												980

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TABLE 10  
PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH > 4/8) AND  
OCCURRENCE OF NH < 5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 399	350 499	400 599	450 699	500 799	550 899	600 999	TOTAL ANY HGT	NH < 5/8 ANY HGT	TOTAL OBS
00003	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	229
06009	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	256
12015	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	225
18021	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	204
TOT PCT	.0 .0	.0 .0	.0 .0	.0 .0	.0 .0	.0 .0	.0 .0	.0 .0	.0 .0	.0 .0	.0 .0	914 100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/8	1/8<1	1/2<1	2<5	5<10	10+	TOTAL OBS
00003	.0	.0	.0	.0	.0	.0	218
06009	.0	.0	.0	.0	.0	.0	250
12015	.0	.0	.0	.0	.0	.0	216
18021	.0	.0	.0	.0	.0	.0	202
TOT PCT	.0 .0	.0 .0	.0 .0	.0 .0	.0 .0	.0 .0	886 100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR  
CEILING HGT (FEET, NH > 4/8) BY HOUR

HOUR (GMT)	<150 CEILING	<600 CEILING	<1000 CEILING	1000+ AND 5+	NH < 5/8 AND 5+	TOTAL OBS
00003	.0	.0	.0	.0	.0	218
06009	.0	.0	.0	.0	.0	250
12015	.0	.0	.0	.0	.0	216
18021	.0	.0	.0	.0	.0	202
TOT PCT	.0 .0	.0 .0	.0 .0	.0 .0	.0 .0	886 100.0

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PERIOD: (PRIMARY) 1951-1970  
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TABLE 13

TEMP F	PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP										TOTAL OBS	PCT FREQ
	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100				
95/99	.0	.0	.1	.0	.1	.0	.0	.0			2	.3
90/94	.0	.0	.4	1.1	1.9	.8	.4	.1			36	4.8
85/89	.0	.0	.7	3.6	6.8	10.7	5.0	1.1			225	29.8
80/84	.0	.0	.4	1.6	9.0	18.7	17.4	4.1			386	51.2
75/79	.0	.0	.0	.4	2.1	3.7	3.8	3.0			103	13.7
70/74	.0	.0	.0	.0	.0	.0	.0	.3			2	.3
TOTAL	.0	.0	.12	.50	16.5	24.7	20.1	6.9			754	100.0
PCT	.0	.0	1.6	6.6	21.9	34.1	26.7	9.2				

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP									
N	E	SE	S	SW	W	NW	VAR	CALM	
.0	.0	.0	.0	.0	.0	.1	.0	.1	
.4	.2	.9	.4	.0	.6	.7	.0	.1	
1.8	3.4	6.1	2.1	2.1	2.5	4.0	.0	4.8	
4.7	3.2	12.4	8.1	5.1	2.5	4.0	.0	8.1	
1.1	1.3	.8	2.8	2.8	.7	.9	.0	2.9	
.0	.0	.0	.0	.0	.0	.0	.0	.1	
.48	.56	1.52	1.00	.45	.54	.73	.0	1.29	
8.7	6.4	7.4	20.2	13.3	10.0	7.2	9.7	17.1	

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR									
HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	88	87	86	81	75	73	72	80.9	264
06009	93	92	90	85	79	75	73	84.5	289
12015	93	94	92	85	79	78	74	85.4	235
18021	87	86	86	82	78	75	75	81.8	226
TOT	95	93	89	83	77	75	72	83.2	1034

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR									
HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN
00003	.0	.0	.3	3.5	13.9	32.3	33.3	16.9	79
06009	.0	.0	12.1	23.8	36.8	23.3	23.3	4.0	73
12015	.0	.0	14.3	35.2	32.1	17.3	1.0	70	70
18021	.0	.0	1.1	13.5	36.5	24.3	14.6	79	79
TOT	.0	.0	6.4	17.4	27.5	21.4	7.1	75	798

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)  
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AT -SEA T P OIF	73	76	77	80	81	84	85	88	89	92	96	TOT	W	WD
14/16	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.0	1	.0	.1
11/14	.0	.0	.0	.0	.0	.0	.2	.0	.1	.3	.0	5	.0	.6
9/10	.0	.0	.0	.1	.2	.2	1.1	.7	.1	.1	.0	9	.0	1.0
7/8	.0	.0	.0	.0	.0	.0	1.1	.6	.9	.1	.0	20	.0	2.3
6	.0	.0	.0	.0	.0	.0	1.1	1.6	.2	.1	.0	14	.0	1.6
5	.0	.0	.1	.1	.3	.3	1.1	1.1	.6	.2	.0	30	.0	3.4
4	.0	.0	.1	.2	.6	1.3	3.0	.3	.3	.2	.0	37	.0	4.3
3	.0	.0	.2	.2	1.3	3.7	.7	.0	.0	.0	.0	51	.0	5.9
2	.1	.1	.6	.6	2.6	4.7	.2	.0	.0	.0	.0	72	.0	8.3
1	.1	.1	.3	.3	3.9	3.9	.5	.0	.0	.0	.0	76	.0	8.7
0	.0	.0	1.8	6.7	3.1	.3	.3	.0	.0	.0	.0	104	.0	12.0
-1	.1	.1	2.2	7.1	2.4	.1	.0	.0	.0	.0	.0	104	.0	12.0
-2	.3	.3	3.6	7.9	1.5	.1	.0	.0	.0	.0	.0	117	.0	13.4
-3	.3	.3	2.2	4.0	1.0	.0	.0	.0	.0	.0	.0	67	.0	7.7
-4	.3	.3	3.2	3.6	.3	.0	.0	.0	.0	.0	.0	66	.0	7.6
-5	.6	.6	2.1	2.1	.0	.0	.0	.0	.0	.0	.0	41	.0	4.7
-6	.1	.1	1.8	1.4	.1	.0	.0	.0	.0	.0	.0	30	.0	3.4
-7/-8	.8	.8	.8	.5	.1	.0	.0	.0	.0	.0	.0	19	.0	2.2
-9/-10	.0	.0	.2	.2	.0	.0	.0	.0	.0	.0	.0	4	.0	.5
-11/-13	.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	.0	.3
TOTAL	28	171	371	235	54	1.1	870					870	0	870
PCT	3.2	19.7	42.6	27.0	6.2	1.3	100.0					100.0		100.0



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TABLE 18

AREA 0021 S. GULF OF OMAN  
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PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N				NE				48+	PCT			
<1	1-3	4-10	11-21	22-33	34-47	48+	1-3	4-10	11-21	22-33	34-47	48+	PCT
1-2	1.9	.0	.0	.0	.0	.0	2.2	.0	.0	.0	.0	.0	2.2
3-4	.0	5.8	.6	.0	.0	.0	1.2	3.5	.6	.0	.0	.0	5.4
5-6	.0	2.3	2.2	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.9	8.2	2.8	.0	.0	.0	3.5	3.5	.7	.0	.0	.0	7.7

HGT	E				SE				PCT				
	1-3	4-10	11-21	22-33	34-47	48+	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	2.3	2.2	.0	.0	.0	.0	.6	4.4	.0	.0	.0	.0	5.0
1-2	.4	4.7	.0	.0	.0	.0	.6	7.6	1.2	.0	.0	.0	9.4
3-4	.0	1.0	.0	.0	.0	.0	.0	2.0	.7	.0	.0	.0	2.6
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.8	7.9	.4	.0	.0	.0	1.2	14.0	2.5	.1	.0	.0	17.8

OC: OBER  
TABLE 18  
AREA 0021 S. GULF OF OMAN  
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PERIOD: (PRIMARY)  
(OVER-ALL) 1963-1970

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S				SW				48+	PCT
	1-3	4-10	11-21	22-33	34-47	48+	1-3	4-10	11-21	22-33
<1	.0	2.8	.0	.0	.0	.0	.6	3.1	.0	.0
1-2	.6	6.4	1.2	.0	.0	.0	.7	2.3	.0	.0
3-4	.0	1.5	1.0	.0	.0	.0	.0	.7	1.9	.0
5-6	.0	1.6	1.6	.4	.0	.0	.0	.1	1.3	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.2	12.3	3.8	.4	.0	.0	1.3	6.3	3.2	.0

HGT	NW				SW				48+	PCT
	1-3	4-10	11-21	22-33	34-47	48+	1-3	4-10	11-21	22-33
<1	.0	.4	.0	.0	.0	.0	.3	1.2	.0	.0
1-2	.4	3.9	1.0	.0	.0	.0	1.8	5.7	.7	.0
3-4	.0	.4	1.2	.0	.0	.0	.0	.7	1.8	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.6	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.5	4.8	2.2	.0	.0	.0	3.1	7.3	3.1	.0

PERIOD: (PRIMARY)  
(OVER-ALL) 1963-1970

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AREA 0021 S. GULF OF OMAN  
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TABLE 18 (CONT)

WIND SPEED (KTS) VS SEA HEIGHT (FT)								TOT OBS
WT	0-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	31.4	10.6	.0	.0	.0	.0	42.0	
1-2	4.9	30.5	4.0	.0	.0	.0	39.4	
3-4	.0	6.6	6.6	.0	.0	.0	13.3	
5-6	.0	1.3	3.5	.4	.0	.0	5.3	
7	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	36.3	49.1	14.2	.4	.0	.0	100.0	226

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	9-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	12.8	27.1	11.7	2.8	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	371
6-7	.0	.0	3.2	2.5	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	45
8-9	.3	.3	.9	.3	.4	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	16
10-11	.0	.3	.0	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5
12-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
NOET	28.9	4.4	1.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	240
TOTAL	285	222	118	44	7	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	678
PCT	42.0	32.7	17.4	6.5	1.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0

PERIOD (PRIMARY) 1950-1970  
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NOVEMBER

AREA 0021 S. GULF OF OMAN  
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TABLE 1  
PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	RAIN SHWR	ORILL	PRECIPITATION TYPE			HAIL	PCT FREQ PCPN AT DB TIME	TOTAL PCPN OBS	THDR L'NG	OTHER WEATHER PHENOMENA						TOTAL D/S
			FRIG PCPN	SNOW PCPN	OTHER PCPN					FG	SMOKE	DUST	NO	8LWG	SIG	
N	.0	.0	.0	.0	.0	.0	.0	0	.0	.1	.1	.0	.0	.0	15.3	125
NE	.0	.0	.0	.0	.0	.0	.0	0	.1	.0	.3	.0	.2	.0	13.5	124
E	.0	.0	.0	.0	.0	.0	.0	0	.2	.0	.0	.0	.0	.0	9.7	88
SE	.0	.0	.0	.0	.0	.0	.0	0	.2	.0	.0	.0	.0	.0	12.9	116
S	.0	.0	.0	.0	.0	.0	.0	0	.2	.0	.0	.0	.0	.0	7.5	67
SW	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	4.3	38
W	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	3.7	32
NW	.0	.0	.0	.0	.0	.0	.0	0	.0	.1	.1	.0	.0	.0	12.4	110
VAR	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	0
CALM	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	18.5	164
TOT OBS	0	0	0	0	0	0	.0	0	.6	.2	.2	.0	.0	.0	859	877
TOT PCT	.0	.0	.0	.0	.0	.0	.0	0	.7	.2	.9	.2	.2	.0	97.9	100.0

TABLE 2  
PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	RAIN SHWR	ORILL	PRECIPITATION TYPE			HAIL	PCT FREQ PCPN AT DB TIME	TOTAL PCPN OBS	THDR L'NG	OTHER WEATHER PHENOMENA						TOTAL OBS
			FRIG PCPN	SNOW PCPN	OTHER PCPN					FG	SMOKE	DUST	NO	8LWG	SIG	
00003	.0	.0	.0	.0	.0	.0	.0	0	.8	.0	.8	.0	.4	.0	97.9	238
06009	.0	.0	.0	.0	.0	.0	.0	0	.0	.4	.8	.0	.4	.0	98.5	261
12015	.0	.0	.0	.0	.0	.0	.0	0	.8	.4	.8	.0	.0	.0	98.0	252
18021	.0	.0	.0	.0	.0	.0	.0	0	1.5	.0	1.0	.0	.0	.0	97.5	198
TOT	0	0	0	0	0	0	.0	0	.7	.2	.8	.2	.2	.0	930	949
PCT	.0	.0	.0	.0	.0	.0	.0	0	.7	.2	.8	.2	.2	.0	98.0	100.0

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PERIOD: (PRIMARY) 1950-1970  
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TABLE 5

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)										48+	TOTAL OBS	PCT FREQ	MEAN SPO	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	00	03	06	09	12					15	18	21					
N	2.3	3.9	3.9	.1	.0	.0	143	15.1	8.2	13.1	12.5	13.9	28.9	18.5	11.1	14.1	9.4					
NE	3.2	8.2	2.7	.2	.0	.0	135	14.2	7.4	10.3	16.7	13.5	2.6	17.4	36.1	14.9	6.3					
E	2.2	7.1	.7	.1	.0	.0	96	10.1	6.1	4.2	.6	9.6	13.2	15.0	25.0	10.2	9.4					
SE	3.0	8.2	1.6	.0	.0	.0	121	12.8	6.4	14.7	8.3	11.1	5.3	13.3	5.6	13.3	21.9					
S	1.3	5.3	.9	.0	.0	.0	71	7.5	6.8	8.5	.0	7.5	10.5	6.3	.0	8.7	6.3					
SW	1.3	2.2	.5	.0	.0	.0	39	4.2	5.5	6.9	25.0	4.8	2.6	1.8	.0	2.7	.0					
W	2.9	3.0	.3	.0	.0	.0	39	4.2	5.5	3.6	25.0	6.3	5.3	1.7	2.8	3.5	9.4					
NW	2.5	7.4	2.6	.1	.0	.0	121	12.8	7.6	12.3	4.2	13.7	21.1	12.4	8.3	12.9	12.5					
VAP	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0					
CALM	19.1	.0	127	4	0	0	181	19.1	.0	26.3	8.3	19.3	10.5	13.5	11.1	19.6	23.0					
TOT OBS	341	478	13.4	.4	.0	.0	950		5.7	213	12	244	19	244	18	184	16					
TOT PCT	35.9	50.3						100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0					

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					41+	TOTAL OBS	PCT FREQ	MEAN SPO	HOUR (GMT)									
	0-6	7-16	17-27	28-40						00	03	06	09	12	15	18	21		
N	6.9	7.4	.9	.0	.0	.0	143	15.1	8.2	13.1	13.1	15.0	18.0	13.8					
NE	7.9	5.7	.7	.0	.0	.0	135	14.2	7.4	10.7	10.7	12.7	18.7	14.3					
E	6.6	3.4	.2	.0	.0	.0	96	10.1	6.1	4.0	4.0	9.9	15.6	10.1					
SE	7.6	5.2	.0	.0	.0	.0	121	12.8	6.4	14.3	14.3	10.6	12.8	14.0					
S	4.0	3.4	.1	.0	.0	.0	71	7.5	6.8	8.0	8.0	8.0	5.8	8.3					
SW	2.8	1.4	.0	.0	.0	.0	39	4.2	5.5	7.9	7.9	4.7	1.7	2.5					
W	3.1	1.1	.0	.0	.0	.0	39	4.2	5.5	4.3	4.3	6.2	1.8	4.0					
NW	8.0	6.6	.1	.0	.0	.0	121	12.8	7.6	11.9	11.9	14.3	12.1	12.9					
VAR	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0					
CALM	19.1	324	18	1	0	0	181	19.1	.0	25.3	25.3	18.6	13.4	20.0					
TOT OBS	607	34.1	1.9	.1	.0	.0	950		5.7	100.0	100.0	100.0	100.0	100.0					
TOT PCT	63.9	34.1			.0	.0		100.0											

PERIOD: (PRIMARY) 1950-1970  
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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
0000	29.3	13.3	48.4	12.9	.0	.0	.0	5.4	100.0	225
0600	18.0	17.1	51.7	12.2	.4	.0	.0	5.4	100.0	263
1200	13.0	17.6	53.0	13.4	.0	.0	.0	6.1	100.0	262
1800	20.0	19.5	44.5	15.5	.5	.0	.0	5.8	100.0	200
TOT	18.7	16.0	47.8	12.7	.4	.0	.0	5.7		930
PCT	19.1	16.8	50.3	13.4	.4	.0	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)  
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8-10	TOTAL OBS	MEAN CLOUD COVER
N	12.6	1.5	.7	.0	117	.8
NE	12.1	.6	.7	.0	106	.8
E	17.6	.4	.7	.1	174	1.3
SE	10.5	1.4	.6	.0	100	1.0
S	7.4	.6	.1	.0	64	.6
SW	3.9	.2	.0	.0	32	.4
W	3.6	.2	.1	.0	31	.7
NW	11.9	.8	.3	.0	104	.7
VAR	19.6	1.0	.0	.0	0	.3
CALM	711	57	27	.1	165	.3
TOT OBS	59.3	7.2	3.4	.1	796	.7
TOT PCT					100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT) NH >4/8  
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WIND DIR	000	149	150	299	300	359	400	499	500	599	649	699	799	ANY HGT	TOTAL OBS
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	117
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	106
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	174
SE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	64
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	32
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	31
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	104
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	165
TOT OBS	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	796
TOT PCT	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0

PERIOD: (PRIMARY) 1950-1970  
(OVER-ALL) 1910-1970

NOVEMBER

AREA 0021 S. GULF OF OMAN  
23.1N 59.3E

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE  
OF CEILING HEIGHT (NH > 781 AND VSBY (NM)

CEILING (FEET)	= OR >10	= OR >5	= OR >2	VSBY (NM) = OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >6500	.2	.2	.2	.2	.2	.2	.2	.2
= OR >5000	.2	.2	.2	.2	.2	.2	.2	.2
= OR >3500	.5	.5	.5	.5	.5	.5	.5	.5
= OR >2000	1.1	1.4	1.2	1.2	1.2	1.2	1.2	1.2
= OR >1000	1.3	1.4	1.4	1.4	1.4	1.4	1.4	1.4
= OR >600	1.5	1.6	1.6	1.6	1.6	1.6	1.6	1.6
= OR >300	1.5	1.6	1.6	1.6	1.6	1.6	1.6	1.6
= OR >150	1.5	1.6	1.6	1.6	1.6	1.6	1.6	1.6
= OR >0	1.5	1.6	1.6	1.6	1.6	1.6	1.6	1.6
= OR TOTAL	13	14	14	14	14	14	14	14

TOTAL NUMBER OF OBS: 857

PCT FREQ NH <5/8: 98.4

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	9	TOTAL OBS
	70.9	17.6	5.2	3.4	1.3	1.0	.2	.7	.0	.0	890

PERIOD: (PRIMARY) 1950-1970  
(OVER-ALL) 1910-1970

NOVEMBER

AREA 0021 S. GULF OF OMAN  
23.1N 59.3E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF  
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

WIND (NM)	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
<1/2 NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1/2<1 NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1<2 NO PCP	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1	.1
TOT %	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1	.1
PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
2<3 NO PCP	.0	.2	.0	.0	.0	.0	.0	.1	.0	.0	.3	.3
TOT %	.0	.2	.0	.0	.0	.0	.0	.1	.0	.0	.3	.3
PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5<10 NO PCP	.9	1.1	.5	.8	.2	.1	.0	.7	.0	.2	4.6	4.6
TOT %	.9	1.1	.5	.8	.2	.1	.0	.7	.0	.2	4.6	4.6
PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10+ NO PCP	14.6	12.8	9.6	12.4	7.5	4.2	3.7	11.6	.0	18.5	95.0	95.0
TOT %	14.6	12.8	9.6	12.4	7.5	4.2	3.7	11.6	.0	18.5	95.0	95.0
TOT OBS	15.5	14.2	10.1	13.2	7.7	4.3	3.7	12.6	.0	18.7	100.0	176
TOT PCT	15.5	14.2	10.1	13.2	7.7	4.3	3.7	12.6	.0	18.7	100.0	176



PERIOD: (PRIMARY) 1950-1970  
(OVER-ALL) 1910-1970

NOVEMBER

AREA 3021 S, GULF OF OMAN  
23.1N 59.3E

TABLE 9  
PERCENT FREQ OF WIND DIRECTION VS WIND SPEED  
WITH VARYING VALUES OF VISIBILITY

WIND (NH)	SPO KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5<10	0-3	.4	.3	.2	.3	.1	.1	.0	.1	.0	.2	1.6	.0
	4-10	.4	.7	.4	.2	.1	.0	.0	.6	.0	.0	2.5	.0
	11-21	.1	.3	.0	.2	.0	.0	.0	.1	.0	.0	.7	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.9	1.3	.6	.7	.2	.1	.0	.7	.0	.2	4.8	.0
10+	0-3	1.9	3.0	2.0	2.8	1.2	1.2	.9	2.6	.0	19.1	34.7	.0
	4-10	8.7	7.1	6.6	8.0	5.2	2.2	3.0	6.7	.0	.0	47.5	.0
	11-21	3.5	2.4	.7	1.4	.9	.6	.3	2.0	.0	.0	12.0	.0
	22+	.1	.2	.1	.0	.0	.0	.0	.1	.0	.0	.4	.0
	TOT %	14.2	12.6	9.4	12.2	7.4	4.1	4.2	11.5	.0	19.1	94.7	.0
TOT OBS		15.0	14.3	10.0	12.9	7.6	4.2	4.2	12.4	.0	19.3	163.0	936

PERIOD: (PRIMARY) 1956-1970  
(OVER-ALL: 1910-1970)

NOVEMBER

AREA 0021 S. GULF OF OMAN  
23.1N 59.3E

TABLE 10  
PERCENT FREQUENCY OF CEILING HEIGHTS (FEET) NH >4/8) AND  
OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 144	150 299	300 599	300 999	500 1999	500 3499	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	.0	.0	.0	.0	.0	.5	.0	.5	1.4	98.6 219
06009	.0	.0	.0	.4	.0	1.2	.4	.0	2.0	98.0 252
12015	.0	.0	.0	.4	.0	.4	.0	.0	1.3	98.7 227
18021	.0	.0	.0	.0	1.1	.5	.0	.0	1.6	98.4 189
TOT	0	0	0	2	6	2	0	1	14	873 887
PCT	.0	.0	.0	.2	.7	.2	.0	.1	1.6	98.4 100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) 5Y HOUR	<1/2	1/2-1	1-2	2-5	5-10	10+	TOTAL OBS
HOUR (GMT)							
00003	.0	.0	.0	.0	2.6	96.2	212
06009	.0	.0	.0	.0	2.0	98.0	244
12015	.0	.0	.0	.0	2.3	97.7	218
18021	.0	.0	.0	.5	2.2	97.3	183
TOT	0	0	0	3	20	834	857
PCT	.0	.0	.0	.4	2.3	97.3	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET) NH >4/8) BY HOUR	HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
	00003	.0	.0	.0	.9	1.4	97.6 212
	06009	.0	.0	.0	.4	1.6	98.0 244
	12015	.0	.0	.0	.5	.9	98.6 218
	18021	.0	.0	.0	.5	1.6	97.8 183
TOT	0	0	0	5	12	840	857
PCT	.0	.0	.0	.6	1.4	98.0	100.0

# NOVEMBER

PERIOD (PRIMARY) 1930-1970  
(OVER-ALL) 1910-1970

AREA 0021 S. GULF OF ONAM  
23.1N 39.3E

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP		TOTAL OBS									
TEMP F		0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100		
90/94	.0	.0	.3	.8	2.2	2.8	.0	.0	.0	10	1.4
85/89	.0	.0	.3	2.2	7.2	14.4	2.1	.7	.1	59	9.2
80/84	.0	.0	.6	1.5	4.4	11.5	11.5	4.6	1.2	296	40.9
75/79	.0	.4	2.5	4.4	11.5	14.9	14.9	6.9	2.4	311	43.0
70/74	.0	.0	.7	1.2	1.5	1.7	.8	.4	.4	46	6.4
65/69	.0	.0	.0	.0	.0	.0	.1	.0	.0	1	.1
TOTAL	.0	.7	38	115	220	219	94	30	4.1	723	100.0
PCT	.0	1.0	5.3	15.9	30.4	30.3	13.0	4.1			

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP		TOTAL OBS							
TEMP F		N	NE	E	SE	S	SW	W	NW
90/94	.1	.4	.1	.1	.1	.1	.2	.0	.3
85/89	1.7	.4	.9	.7	.4	.4	.7	.4	1.4
80/84	5.8	6.8	3.4	3.7	4.4	1.5	1.5	1.5	4.5
75/79	6.6	5.3	4.1	6.2	2.6	.9	1.3	.9	3.2
70/74	1.2	1.1	.2	.8	.1	.3	.1	.1	1.5
65/69	.0	.0	.0	.0	.0	.0	.0	.1	.0
TOTAL	112	107	64	98	56	29	22	92	139
PCT	13.3	14.8	8.9	13.8	7.8	4.0	3.1	12.8	19.2

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR		TOTAL OBS									
HOUR (GMT)		MAX	99%	95%	50%	5%	1%	MIN	MEAN		
0000	84	83	82	78	72	71	68	77.4	232		
0600	92	88	86	81	76	73	72	81.1	273		
1200	94	91	88	81	74	73	72	81.5	276		
1800	85	84	82	78	74	71	71	75.0	217		
TOT	94	90	86	79	74	72	68	79.6	1020		

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR		TOTAL OBS									
HOUR (GMT)		0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	
0000	.0	.0	17.1	23.4	23.6	34.7	17.6	7.0	72	199	
0600	.0	.0	23.4	37.8	26.8	8.5	1.4	.6	66	209	
1200	.0	.0	30.3	33.7	28.4	5.8	1.9	.63	208		
1800	.0	.0	12.6	26.9	32.3	21.6	6.6	72	167		
TOT	0	171	241	238	101	32	69		783		

PERIOD: (PRIMARY) 1950-1970  
(OVER-ALL) 1910-1970

NOVEMBER

AREA 0021 S. GULF OF OMAN  
23.1N 59.3E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)  
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	63		69		73		77		81		85		89		93		TOT		W		HO	
	65	68	70	72	74	76	78	80	82	84	86	88	90	92	94	96			FOG	FOG		
11/13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	1	.5	.0	.0	1	.2
9/10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1	.1	.1	.1	2	.0	.0	.0	.2	.0
7/8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1	.1	.1	.1	10	.0	.0	.0	1.2	.0
6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8	.0	.0	.0	.9	.0
5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	16	.0	.0	.0	1.9	.0
4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	20	.0	.0	.0	2.4	.0
3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	27	.0	.0	.0	3.1	.0
2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	63	.0	.0	.0	7.5	.0
1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	64	.0	.0	.0	7.6	.0
0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	77	.0	.0	.0	9.1	.0
-1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	123	.0	.0	.0	14.5	.0
-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	114	.0	.0	.0	13.5	.0
-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	103	.0	.0	.0	10.9	.0
-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	62	.0	.0	.0	7.3	.0
-5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	29	.0	.0	.0	2.4	.0
-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	23	.0	.0	.0	2.7	.0
-7/-8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8	.0	.0	.0	.9	.0
-9/-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	844	.0	.0	.0	842	.0
TOTAL	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	100.0	.2	.2	.2	99.8	.2
PCT	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1						

NOVEMBER  
TABLE 18  
AREA 0021 S. GULF OF OMAN  
23.1N 59.3E

PERIOD (PRIMARY)  
(OVER-ALL) 1963-1970

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

WGT	N					NE					PCT		
	1-3	4-10	11-21	22-33	34-47	48+	1-3	4-10	11-21	22-33		34-47	48+
<1	1.9	2.7	.0	.0	.0	.0	1.7	1.7	.0	.0	.0	.0	3.3
1-2	1.0	1.1	.5	.0	.0	.0	.0	9.1	1.0	.0	.0	.0	10.1
3-4	.0	1.9	6.4	.0	.0	.0	.0	2.7	3.2	.0	.0	.0	5.9
5-6	.0	.4	.5	.0	.0	.0	.0	.8	1.0	.0	.0	.0	1.9
7	.0	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.1	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.5
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.9	12.1	8.3	.4	.0	.0	1.7	14.2	5.9	.8	.0	.0	22.6

WGT	E					SE					PCT			
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21		22-33	34-47	48+
<1	.0	2.3	.0	.0	.0	.0	2.3	1.3	1.5	.0	.0	.0	.0	3.1
1-2	.8	3.6	.0	.0	.0	.0	4.4	.4	1.5	.0	.0	.0	.0	4.1
3-4	.0	.0	1.0	.0	.0	.0	1.9	.0	2.7	.5	.0	.0	.0	3.2
5-6	.0	.4	.0	.4	.0	.0	.8	.0	.0	.5	.0	.0	.0	.5
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.8	7.2	1.0	.4	.0	.0	9.4	1.9	7.9	1.0	.0	.0	.0	10.9

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PERIOD: (PRIMARY)  
 (COVER-ALL) 1963-1970

TABLE 13

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
HGT														
<1	.0	.5	.0	.0	.0	.0	.5	.0	1.0	.0	.0	.0	.0	1.0
1-2	.9	1.9	.0	.0	.0	.0	2.8	.6	1.8	.5	.0	.0	.0	3.9
3-4	.0	.0	.5	.0	.0	.0	.5	.0	.5	.0	.0	.0	.0	.5
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.5	.0	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.9	2.4	1.0	.0	.0	.0	4.4	.6	3.3	.5	.0	.0	.0	4.5

	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
HGT														
<1	.4	1.3	.0	.0	.0	.0	1.7	1.7	4.2	.0	.0	.0	.0	6.5
1-2	.4	1.8	.0	.0	.0	.0	2.2	3.1	5.9	.0	.0	.0	.0	9.0
3-4	.0	.5	.0	.0	.0	.0	.5	.0	1.5	2.7	.0	.0	.0	4.2
5-6	.0	.0	.0	.0	.0	.0	.0	.0	1.5	1.5	.0	.0	.0	1.5
7	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.9	3.6	.0	.0	.0	.0	4.4	4.7	12.5	4.2	.0	.0	.0	21.3

PERIOD: (PRIMARY:  
(OVER-ALL) 1967-1970

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TABLE 18 (CONT)

HGT	WIND SPEED (KTS) VS SEA HEIGHT (FT)						TOT OBS
	0-3	4-10	11-21	22-33	34-47	48+	
<1	28.8	11.7	.0	.0	.0	.0	40.5
1-2	6.8	25.8	1.5	.0	.0	.0	34.1
3-4	.4	8.0	10.6	.0	.0	.0	18.9
5-6	.0	1.1	2.7	.4	.0	.0	4.2
7	.0	.0	1.5	.0	.0	.0	1.5
8-9	.0	.0	.0	.4	.0	.0	.4
10-11	.0	.0	.0	.4	.0	.0	.4
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	36.0	46.6	16.3	1.1	.0	.0	100.0
							264

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+ TOTAL	MEAN HGT
<6	12.7	25.7	11.7	3.4	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	34.9
6-7	.3	.0	2.3	3.2	.6	.3	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2
8-9	.0	.5	.2	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4
10-11	.0	.0	.2	.4	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4
12-13	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1
INDET	29.5	5.9	1.4	.6	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	244
TOTAL	274	205	102	50	12	2	2	0	0	0	0	0	0	0	0	0	0	0	0	647
PCT	42.3	31.7	15.8	7.7	1.9	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0

PERIOD: (PRIMARY) 1949-1970  
(OVER-ALL) 1875-1970

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AREA 0021 S. GULF OF OMAN  
23.0N 59.3E

TABLE 1

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	RAIN SHWR	ORZL	PRECIPITATION TYPE			HAIL PCPN	PLT PCPN AT DB TIME	TOTAL PCPN OBS	THOR LTNC	OTHER WEATHER PHENOMENA				TOTAL OBS
			FRZG PCPN	SNOW PCPN	OTHER PCPN					FGD WZ	SHOKE HAZE	DUST BLWG SNOW	NO SIG WEA	
N	.1	.0	.0	.0	.0	.1	.2	2	.1	.0	.1	.0	.0	129
NE	.0	.0	.0	.0	.0	.0	.0	0	.1	.0	.4	.0	.0	121
E	.0	.0	.1	.0	.0	.0	.1	1	.0	.0	.1	.0	.0	66
SE	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	93
S	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	40
SW	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.1	.0	.0	27
W	.1	.0	.0	.0	.0	.0	.1	1	.1	.0	.0	.0	.0	29
WNW	.1	.0	.0	.0	.0	.0	.1	1	.0	.0	.0	.1	.0	133
VAR	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	1
CALM	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.2	.0	.0	144
TOT OBS	3	0	1	0	0	1	0	5	2	0	5	1	1	301
TOT PCT	.4	.0	.1	.0	.0	.1	.6		.2	.0	.6	.1	.1	100.0

TABLE 2

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	RAIN SHWR	ORZL	PRECIPITATION TYPE			HAIL PCPN	PLT PCPN AT DB TIME	TOTAL PCPN OBS	THOR LTNC	OTHER WEATHER PHENOMENA				TOTAL OBS
			FRZG PCPN	SNOW PCPN	OTHER PCPN					FGD WZ	SHOKE HAZE	DUST BLWG SNOW	NO SIG WEA	
00003	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	213
06009	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.5	.0	.0	216
12015	.4	.0	.0	.0	.0	.4	.9	2	.4	.0	.9	.4	.0	226
18021	.0	.0	.0	.0	.0	.0	1.5	3	.5	.0	1.0	.0	.0	205
TOT	3	0	1	0	0	1	.6	5	2	0	5	1	1	860
PCT	.3	.0	.1	.0	.0	.1			.2	.0	.6	.1	.1	100.0



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AREA 0021 S. GULF OF OMAN  
23.0N 59.3E

PERIOD: (PRIMARY) 1969-1970  
(OVER-ALL) 1973-1970

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)										HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21	
N	2.3	9.7	4.9	.5	.0	.0	157	17.4	8.9	13.6	17.9	16.7	16.9	23.4	15.4	15.7	19.6	
NE	2.5	10.2	2.9	.0	.0	.0	140	15.5	7.4	13.0	21.4	13.6	4.8	18.8	23.1	16.9	15.2	
E	1.6	6.0	.6	.1	.0	.0	74	8.3	6.3	5.0	17.9	7.4	6.5	10.4	13.5	9.1	8.7	
SE	2.1	7.5	2.1	.1	.0	.0	103	11.5	7.4	7.2	.0	13.4	17.7	14.2	7.7	11.9	8.7	
S	1.1	3.3	.7	.0	.0	.0	45	5.1	6.3	7.9	.0	4.5	8.1	3.1	1.9	4.6	8.7	
SW	1.0	2.0	.2	.1	.0	.0	30	3.4	6.8	3.9	10.7	5.7	1.6	1.4	2.8	2.7	.0	
W	.8	2.9	.7	.2	.0	.0	41	4.6	7.8	5.0	17.9	4.3	14.5	2.1	7.7	4.1	6.5	
NW	1.6	10.3	4.1	.5	.1	.0	150	16.6	8.9	17.5	7.1	20.7	23.4	15.7	11.5	13.0	15.2	
VAR	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	17.6	467	146	12	1	0	159	17.6	.0	26.8	7.1	13.6	6.5	11.1	15.4	22.2	17.4	
TOT OBS	277	51.7	16.2	1.3	.1	.0	903	100.0	6.4	209	14	198	31	217	26	185	23	
TOT PCT	30.7	51.7	16.2	1.3	.1	.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)								41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-6	7-16	17-17	28-40	41+	00	03	06					09	12	15	18	21			
N	7.3	8.6	1.6	.0	.0	157	17.4	8.9	13.9	13.9	16.7	22.5	16.1	16.7						
NE	8.2	6.8	.5	.0	.0	140	15.5	7.4	13.6	13.6	12.4	19.2	16.7	16.7						
E	5.4	2.6	.2	.0	.0	74	8.3	6.3	5.8	5.8	7.3	10.7	9.0	9.0						
SE	5.6	5.7	.1	.0	.0	103	11.5	7.4	6.7	6.7	14.0	13.5	11.5	11.5						
S	3.3	1.7	.1	.0	.0	45	5.1	6.3	7.4	7.4	5.0	3.0	2.4	2.4						
SW	2.0	1.2	.1	.1	.0	30	3.4	6.8	4.4	4.4	5.1	1.6	2.4	2.4						
W	2.3	2.0	.3	.0	.0	41	4.6	7.8	5.8	5.8	5.7	2.7	4.3	4.3						
NW	6.9	8.5	1.1	.1	.0	150	16.6	8.9	16.8	16.8	21.1	15.2	13.2	13.2						
VAR	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0						
CALM	17.6	336	36	2	0	159	17.6	.0	25.6	25.6	12.7	11.5	21.6	21.6						
TOT OBS	529	37.2	4.0	.2	.0	903	100.0	6.4	223	223	229	243	268	268						
TOT PCT	58.6	37.2	4.0	.2	.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0						

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PERIOD: (PRIMARY) 1949-1970  
(OVER-ALL) 1875-1970

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CA.M	1-3	4-10	WIND SPEED (KNOTS)				48+	MEAN	PCT		TOTAL OBS
				11-21	22-33	34-47	FREQ			FREQ		
0003	25.6	11.7	48.9	12.6	.7	.4	.0	5.8	100.0		223	
0609	12.7	14.4	56.8	14.8	1.3	.0	.0	6.6	100.0		229	
1215	11.5	12.8	52.3	22.6	.8	.0	.0	7.3	100.0		243	
1821	21.6	13.5	48.6	13.9	2.4	.0	.0	6.0	100.0		208	
TOT	119	118	467	146	12	1	0	6.4			903	
PC	17.6	13.1	51.7	16.2	1.3	.1	.0		100.0			

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)  
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8-6	OBSCD	MEAN		TOTAL OBS
						CLOUD COVER	COVER	
N	13.3	1.7	2.1	.1	.1	1.5	1.5	124
NE	12.4	2.0	1.6	.1	.1	1.4	1.4	117
E	5.3	1.2	.6	.5	.5	2.1	2.1	57
SE	9.2	1.7	1.0	.2	.2	1.5	1.5	87
S	3.2	.6	.5	.0	.0	1.6	1.6	31
SW	3.2	.4	.4	.0	.0	.8	.8	28
W	2.7	.4	.3	.3	.3	1.9	1.9	27
NW	11.2	3.3	1.8	.4	.4	1.7	1.7	121
VAR	.0	.0	.0	.0	.0	.0	.0	0
CALM	17.0	.5	.4	.1	.1	.5	.5	132
TOT OBS	77.6	80	62	15	15	1.4	1.4	728
TOT PCT	77.6	12.1	8.5	1.8	1.8			100.0

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8)  
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8-6	TOTAL OBS	MEAN CLOUD COVER	000 149	150 299	300 399	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	13.3	1.7	2.1	.1	124	1.5	.0	.0	.0	.4	.0	.0	.1	.0	.0	.0	16.7	124
NE	12.4	2.0	1.6	.1	117	1.4	.0	.0	.0	.1	.1	.5	.1	.0	.0	.0	15.2	117
E	5.3	1.2	.6	.5	57	2.1	.0	.0	.1	.0	.0	.3	.1	.0	.0	.0	7.4	57
SE	9.2	1.7	1.0	.2	87	1.5	.0	.0	.0	.0	.0	.0	.1	.0	.1	.0	11.7	87
S	3.2	.6	.5	.0	31	1.6	.0	.0	.0	.0	.1	.1	.0	.0	.0	.0	4.1	31
SW	3.2	.6	.4	.0	28	.8	.0	.0	.0	.0	*	.0	.0	.0	.0	.0	3.6	28
W	2.7	.4	.3	.3	27	1.9	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	3.7	27
NW	11.2	3.3	1.8	.4	121	1.7	.0	.0	.0	.0	.1	.3	.4	.0	.0	.0	15.9	121
VAR	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
CALM	17.0	.5	.4	.1	132	.5	.0	.0	.0	.0	.0	.5	.5	.0	.0	.0	17.6	132
TOT OBS	77.6	80	62	15	728	1.4	.0	.0	.1	.5	.3	14	7	.0	.1	.0	699	728
TOT PCT	77.6	12.1	8.5	1.8	100.0		.0	.0	.1	.7	.4	1.9	.7	.0	.1	.0	96.0	100.0

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AREA 0021 5. GULF OF OMAN  
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PERIOD: (PRIMARY) 1949-1970  
(OVER-ALL) 1875-1970

TABLE 7  
CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE  
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)				
	OR >10	OR >5	OR >2	OR >1	OR >1/2
OR >6500	.1	.1	.1	.1	.1
OR >5000	.3	.3	.3	.3	.3
OR >3500	.9	1.0	1.0	1.0	1.0
OR >2000	2.4	2.7	2.8	2.8	2.8
OR >1000	3.1	3.1	3.2	3.2	3.2
OR >600	3.1	3.7	3.9	3.9	3.9
OR >300	3.2	3.9	4.0	4.0	4.0
OR >150	3.2	3.9	4.0	4.0	4.0
OR >0	3.2	3.9	4.0	4.0	4.0
TOTAL	25	30	31	31	31

TOTAL NUMBER OF OBS: 777 PCT FREQ NH <5/8: 96.0

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	Obscd	Total
57.5	17.2	11.7	5.9	2.5	1.1	1.1	1.2	1.5	.4	.0	81.8

PERIOD (PRIMARY) 1949-1970  
(OVER-ALL) 1875-1970

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF  
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBL (NM)	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NO PCP	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1	.1
TOT %	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1	.1
PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1/2<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1<2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
2<5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NO PCP	.2	.1	.0	.1	.0	.0	.1	.1	.0	.0	.6	.6
TOT %	.2	.1	.0	.1	.0	.0	.1	.1	.0	.0	.6	.6
PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5<10	.7	.4	.6	1.0	.4	.5	.2	.9	.0	1.1	5.9	5.9
NO PCP	.7	.4	.6	1.0	.4	.5	.2	.9	.0	1.1	5.9	5.9
TOT %	.7	.4	.6	1.0	.4	.5	.2	.9	.0	1.1	5.9	5.9
PCP	.2	.0	.1	.0	.0	.0	.1	.1	.0	.0	.6	.6
10+	16.3	14.6	7.6	10.5	4.7	2.9	4.0	15.4	.0	16.9	92.8	92.8
NO PCP	16.5	14.6	7.7	10.5	4.7	2.9	4.1	15.5	.0	16.9	93.4	93.4
TOT %	16.5	14.6	7.7	10.5	4.7	2.9	4.1	15.5	.0	16.9	93.4	93.4
TOT OBS												801
TOT PCT	17.4	15.2	8.3	11.6	5.1	3.4	4.4	16.6	.0	18.0	100.0	

PERIOD: (PRIMARY) 1949-1970  
(OVER-ALL) 1875-1970

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TABLE 9  
PERCENT FREO OF WIND DIRECTION VS WIND SPEED  
WITH VARYING VALUES OF VISIBILITY

VISBY (NM)	SPO KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5<10	0-3	.2	.0	.3	.3	.1	.1	.0	.1	.0	1.2	2.3	.0
	4-10	.3	.0	.2	.7	.2	.1	.1	.2	.0	.0	2.3	.0
	11-21	.1	.0	.0	.3	.2	.1	.1	.4	.0	.0	1.2	.0
	TOT %	.7	.0	.6	1.3	.5	.5	.2	.8	.0	1.2	6.1	.0
10+	0-3	2.0	2.0	1.3	1.9	1.0	.9	.6	1.4	.0	16.8	28.6	.0
	4-10	9.0	9.0	5.7	6.8	3.3	2.0	2.8	9.9	.0	.0	48.7	.0
	11-21	4.8	2.0	.5	1.9	.6	.1	.6	3.6	.0	.0	15.0	.0
	TOT %	16.2	14.0	7.5	10.7	4.9	3.1	4.2	15.2	.0	16.8	93.2	.0
TOT OBS													858
TOT PCT		17.1	15.1	8.0	12.0	5.3	3.6	4.5	16.3	.0	17.9	100.0	

DECEMBER

PERIOD: (PRIMARY) 1969-1970  
(OVER-ALL) 1875-1970

AREA 0021 S. GULF OF OMAN  
23.0N 59.3E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH > 4/8) AND  
OCCURRENCE OF NH < 5/8 BY HOUR

HOUR (GMT)	000 140	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH < 5/8 ANY HGT	TOTAL OBS
00003	.0	.0	.0	.0	1.0	2.0	1.0	.0	.0	.0	4.0	96.0	202
06009	.0	.0	.0	1.4	.0	2.9	.0	.5	.0	.0	4.8	95.2	210
12015	.0	.0	.0	.5	.5	.9	.9	.0	.5	.0	3.3	96.7	213
18021	.0	.0	.5	.5	.0	1.1	1.1	.0	.0	.0	3.2	96.8	190
TOT	.0	.0	.1	.5	.3	1.4	.6	1.1	1.1	.0	3.1	78.4	215
PCT	.0	.0	.1	.6	.4	1.7	.7	.1	.1	.0	3.8	96.2	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	< 1/2	1/2 < 1	1 < 2	2 < 5	5 < 10	10+	TOTAL OBS
00003	.5	.0	.0	.5	4.1	94.8	193
06009	.0	.0	.0	.5	2.9	96.6	204
12015	.0	.0	.0	1.0	4.1	94.9	197
18021	.0	.0	.0	.0	5.5	94.5	183
TOT	1	0	0	4	32	740	777
PCT	.1	.0	.0	.5	4.1	95.2	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR  
CEILING HGT (FEET, NH > 4/8) BY HOUR

HOUR (GMT)	< 150 CEILING	< 150 < 50YD	< 600 < 1	< 1000 < 5	1000+ AND 5+	NH < 5/8 AND 5+	TOTAL OBS
00003	.0	.0	.5	1.0	4.1	94.8	193
06009	.0	.0	.0	2.0	2.9	95.1	204
12015	.0	.0	.0	1.5	3.0	95.4	197
18021	.0	.0	.5	1.1	2.2	95.7	183
TOT	0	0	2	11	24	742	777
PCT	.0	.0	.3	1.4	3.1	95.5	100.0

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PERIOD: (PRIMARY) 1949-1970  
(OVER-ALL) 1875-1970

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TABLE 13

TEMP F	PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP										TOTAL OBS	PCT FREQ
	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100				
90/94	.0	.2	.0	.0	.2	.0	.0	.0	.0	.0	2	.3
85/89	.0	.0	.2	.3	.6	.2	.0	.0	.0	.0	8	1.3
80/84	.0	.0	.5	1.4	2.5	2.0	.3	.8	.0	.0	48	7.5
75/79	.0	.5	2.8	7.1	12.6	14.6	6.8	1.7	.0	.0	293	46.0
70/74	.0	.3	1.6	7.4	12.7	10.0	5.7	1.6	.0	.0	250	39.2
65/69	.0	.0	.2	1.4	.8	1.3	1.7	.2	.0	.0	35	5.5
60/64	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	1	.2
TOTAL	.0	.6	.3	11.2	18.8	17.9	9.2	2.7	.0	.0	637	100.0
PCT	.0	.9	5.2	17.6	29.5	28.1	14.4	1.2				

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP											VAR	CALM
N	NE	E	SE	S	SW	W	NW					
.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.2
.3	.2	.2	.2	.3	.4	.0	.0	.0	.0	.0	.0	.0
1.3	1.2	.9	1.5	.3	.4	.3	1.2	.0	.0	.0	.0	.9
8.9	6.2	3.3	6.0	2.5	2.4	1.6	8.0	.0	.0	.0	.0	7.1
4.0	6.4	3.6	4.2	2.1	1.6	2.4	5.7	.0	.0	.0	.0	9.3
.5	1.4	.5	.3	.0	.2	.0	2.0	.0	.0	.0	.0	.6
.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0
.9	.97	54	79	32	27	27	108	.0	.0	.0	.0	119
15.0	15.3	8.6	12.4	5.1	4.2	4.2	17.0	.0	.0	.0	.0	18.1

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR											TOTAL OBS
MAX	99%	95%	50%	5%	1%	MIN	MEAN				
81	79	77	73	68	64	63	72.9				235
94	87	82	76	71	68	66	76.3				239
92	90	85	77	70	67	66	73.7				232
82	80	78	74	68	64	64	73.6				222
94	87	81	75	69	66	63	74.9				948

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR											TOTAL OBS
HOUR (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN				
0000	.0	13.3	24.1	21.3	20.5	4.8	72				166
0600	.0	30.6	31.2	22.0	11.6	4.6	66				173
1200	.0	30.6	28.9	23.9	12.2	4.4	67				180
1800	.0	1.9	31.9	31.3	15.1	1.8	59				166
TOT	.0	163	199	195	101	27	68				685

PERIOD: (PRIMARY) 1949-1970  
(OVER-ALL) 1878-1970

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)  
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	61	65	69	73	77	81	85	89	93	TOT	W FOG	WD FOG
	64	68	72	76	80	84	88	92	96			
14/16	.0	.0	.0	.0	.0	.0	.0	.0	.1	1	.0	.1
9/10	.0	.0	.0	.0	.0	.0	.4	.4	.0	6	.0	.8
7/8	.0	.0	.0	.0	.1	.3	.4	.0	.0	6	.0	.8
6	.0	.0	.0	.0	.0	.3	.3	.0	.0	4	.0	.1
5	.0	.0	.0	.0	.1	.1	.1	.0	.0	3	.0	.4
4	.0	.0	.0	.1	.9	1.2	.0	.0	.0	12	.0	1.6
3	.0	.0	.0	.3	2.0	.9	.0	.0	.0	19	.0	2.5
2	.0	.0	.0	1.3	2.5	.7	.0	.0	.0	24	.0	3.1
1	.0	.0	.7	3.9	4.7	.5	.0	.0	.0	34	.0	4.4
0	.0	.0	5.3	5.3	4.6	.3	.0	.0	.0	76	.0	9.8
-1	.0	.0	.9	5.3	4.6	.3	.0	.0	.0	83	.0	11.1
-2	.0	.1	1.8	8.3	3.1	.1	.0	.0	.0	104	.0	13.5
-3	.0	.0	2.9	7.8	1.7	.0	.0	.0	.0	98	.0	12.4
-4	.0	.8	3.3	7.3	1.2	.0	.0	.0	.0	96	.0	12.5
-5	.0	.4	4.3	5.1	.7	.0	.0	.0	.0	80	.0	10.4
-6	.0	.3	2.1	3.1	.5	.0	.0	.0	.0	46	.0	6.0
-7/-8	.0	1.4	3.5	2.6	.1	.0	.0	.0	.0	59	.0	7.1
-9/-10	.1	.7	.9	.1	.0	.0	.0	.0	.0	14	.0	1.8
-11/-13	.1	.3	.1	.0	.0	.0	.0	.0	.0	4	.0	.5
-14/-16	.0	.1	.0	.0	.0	.0	.0	.0	.0	1	.0	.1
TOTAL	2	31	157	348	180	37	9	3	1	748	0	748
PCT	.3	4.0	20.4	45.3	23.4	4.8	1.2	.4	.1	100.0	0	100.0



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TABLE 18

PERIOD: (PRIMARY)  
(OVER-ALL) 1953-1970

OBJECT FREQ OF WIND SPEED (KT): AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	N	22-33	34-47	48+	PCT	NE	21-33	34-47	48+	PCT
HT	2.5	2.0	1.5		.0	.0	.0	5.1	.0	.0	.0	.0	2.9
2	.0	5.8	.9		.0	.0	.0	6.7	.0	.0	.0	.0	6.3
3-4	.0	2.6	3.5		.0	.0	.0	6.1	.0	.0	.0	.0	.9
5-6	.0	1.8	1.0		.0	.0	.0	2.8	.0	.0	.0	.0	1.3
7	.0	.0	1.0		.0	.0	.0	1.0	.0	.0	.0	.0	.7
8-9	.0	.0	.0		1.0	.0	.0	.0	.0	.0	.0	.0	.6
10-11	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0
49-50	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0
HT PCT	2.5	12.3	7.0		1.0	.0	.0	22.8		.0	.0	.0	18.4

	1-3	4-10	11-21	22-33	34-47	48+	PCT
HGT							
1	1.3	1.8	1.0	1.0	1.0	1.0	3.1
2	1.6	3.4	1.0	1.0	1.0	1.0	7.3
3	1.9	1.0	1.0	1.0	1.0	1.0	1.3
4	2.0		1.0	1.0	1.0	1.0	1.0
5	2.0	1.0	1.0	1.0	1.0	1.0	1.0
6	2.0	1.0	1.0	1.0	1.0	1.0	1.0
7	2.0	1.0	1.0	1.0	1.0	1.0	1.0
8	2.0	1.0	1.0	1.0	1.0	1.0	1.0
9	2.0	1.0	1.0	1.0	1.0	1.0	1.0
10	2.0	1.0	1.0	1.0	1.0	1.0	1.0
11	2.0	1.0	1.0	1.0	1.0	1.0	1.0
12	2.0	1.0	1.0	1.0	1.0	1.0	1.0
13	2.0	1.0	1.0	1.0	1.0	1.0	1.0
14	2.0	1.0	1.0	1.0	1.0	1.0	1.0
15	2.0	1.0	1.0	1.0	1.0	1.0	1.0
16	2.0	1.0	1.0	1.0	1.0	1.0	1.0
17	2.0	1.0	1.0	1.0	1.0	1.0	1.0
18	2.0	1.0	1.0	1.0	1.0	1.0	1.0
19	2.0	1.0	1.0	1.0	1.0	1.0	1.0
20	2.0	1.0	1.0	1.0	1.0	1.0	1.0
21	2.0	1.0	1.0	1.0	1.0	1.0	1.0
22	2.0	1.0	1.0	1.0	1.0	1.0	1.0
23	2.0	1.0	1.0	1.0	1.0	1.0	1.0
24	2.0	1.0	1.0	1.0	1.0	1.0	1.0
25	2.0	1.0	1.0	1.0	1.0	1.0	1.0
26	2.0	1.0	1.0	1.0	1.0	1.0	1.0
27	2.0	1.0	1.0	1.0	1.0	1.0	1.0
28	2.0	1.0	1.0	1.0	1.0	1.0	1.0
29	2.0	1.0	1.0	1.0	1.0	1.0	1.0
30	2.0	1.0	1.0	1.0	1.0	1.0	1.0
31	2.0	1.0	1.0	1.0	1.0	1.0	1.0
32	2.0	1.0	1.0	1.0	1.0	1.0	1.0
33	2.0	1.0	1.0	1.0	1.0	1.0	1.0
34	2.0	1.0	1.0	1.0	1.0	1.0	1.0
35	2.0	1.0	1.0	1.0	1.0	1.0	1.0
36	2.0	1.0	1.0	1.0	1.0	1.0	1.0
37	2.0	1.0	1.0	1.0	1.0	1.0	1.0
38	2.0	1.0	1.0	1.0	1.0	1.0	1.0
39	2.0	1.0	1.0	1.0	1.0	1.0	1.0
40	2.0	1.0	1.0	1.0	1.0	1.0	1.0
41	2.0	1.0	1.0	1.0	1.0	1.0	1.0
42	2.0	1.0	1.0	1.0	1.0	1.0	1.0
43	2.0	1.0	1.0	1.0	1.0	1.0	1.0
44	2.0	1.0	1.0	1.0	1.0	1.0	1.0
45	2.0	1.0	1.0	1.0	1.0	1.0	1.0
46	2.0	1.0	1.0	1.0	1.0	1.0	1.0
47	2.0	1.0	1.0	1.0	1.0	1.0	1.0
48	2.0	1.0	1.0	1.0	1.0	1.0	1.0
49	2.0	1.0	1.0	1.0	1.0	1.0	1.0
50	2.0	1.0	1.0	1.0	1.0	1.0	1.0
51	2.0	1.0	1.0	1.0	1.0	1.0	1.0
52	2.0	1.0	1.0	1.0	1.0	1.0	1.0
53	2.0	1.0	1.0	1.0	1.0	1.0	1.0
54	2.0	1.0	1.0	1.0	1.0	1.0	1.0
55	2.0	1.0	1.0	1.0	1.0	1.0	1.0
56	2.0	1.0	1.0	1.0	1.0	1.0	1.0
57	2.0	1.0	1.0	1.0	1.0	1.0	1.0
58	2.0	1.0	1.0	1.0	1.0	1.0	1.0
59	2.0	1.0	1.0	1.0	1.0	1.0	1.0
60	2.0	1.0	1.0	1.0	1.0	1.0	1.0
61	2.0	1.0	1.0	1.0	1.0	1.0	1.0
62	2.0	1.0	1.0	1.0	1.0	1.0	1.0
63	2.0	1.0	1.0	1.0	1.0	1.0	1.0
64	2.0	1.0	1.0	1.0	1.0	1.0	1.0
65	2.0	1.0	1.0	1.0	1.0	1.0	1.0
66	2.0	1.0	1.0	1.0	1.0	1.0	1.0
67	2.0	1.0	1.0	1.0	1.0	1.0	1.0
68	2.0	1.0	1.0	1.0	1.0	1.0	1.0
69	2.0	1.0	1.0	1.0	1.0	1.0	1.0
70	2.0	1.0	1.0	1.0	1.0	1.0	1.0
71	2.0	1.0	1.0	1.0	1.0	1.0	1.0
72	2.0	1.0	1.0	1.0	1.0	1.0	1.0
73	2.0	1.0	1.0	1.0	1.0	1.0	1.0
74	2.0	1.0	1.0	1.0	1.0	1.0	1.0
75	2.0	1.0	1.0	1.0	1.0	1.0	1.0
76	2.0	1.0	1.0	1.0	1.0	1.0	1.0
77	2.0	1.0	1.0	1.0	1.0	1.0	1.0
78	2.0	1.0	1.0	1.0	1.0	1.0	1.0
79	2.0	1.0	1.0	1.0	1.0	1.0	1.0
80	2.0	1.0	1.0	1.0	1.0	1.0	1.0
81	2.0	1.0	1.0	1.0	1.0	1.0	1.0
82	2.0	1.0	1.0	1.0	1.0	1.0	1.0
83	2.0	1.0	1.0	1.0	1.0	1.0	1.0
84	2.0	1.0	1.0	1.0	1.0	1.0	1.0
85	2.0	1.0	1.0	1.0	1.0	1.0	1.0
86	2.0	1.0	1.0	1.0	1.0	1.0	1.0
87	2.0	1.0	1.0	1.0	1.0	1.0	1.0
88	2.0	1.0	1.0	1.0	1.0	1.0	1.0
89	2.0	1.0	1.0	1.0	1.0	1.0	1.0
90	2.0	1.0	1.0	1.0	1.0	1.0	1.0
91	2.0	1.0	1.0	1.0	1.0	1.0	1.0
92	2.0	1.0	1.0	1.0	1.0	1.0	1.0
93	2.0	1.0	1.0	1.0	1.0	1.0	1.0
94	2.0	1.0	1.0	1.0	1.0	1.0	1.0
95	2.0	1.0	1.0	1.0	1.0	1.0	1.0
96	2.0	1.0	1.0	1.0	1.0	1.0	1.0
97	2.0	1.0	1.0	1.0	1.0	1.0	1.0
98	2.0	1.0	1.0	1.0	1.0	1.0	1.0
99	2.0	1.0	1.0	1.0	1.0	1.0	1.0
100	2.0	1.0	1.0	1.0	1.0	1.0	1.0

PER 701 (PRIMARY;  
(OVER-ALL) 1963-1970

DECEMBER

TABLE 13

AREA 0021 S. GULF OF DHAN  
23.0N 59.1E

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S										SM										PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.0	.0	.0	.0	.0	1.9	.3	.6	.0	.0	.0	.0	.9	.3	.6	.0	.0	.0	.0	.9
1-2	.4	3.1	.4	.0	.0	.0	3.9	.6	1.5	.7	.0	.0	.0	2.8	.6	1.5	.7	.0	.0	.0	2.8
3-4	.0	.4	.4	.0	.0	.0	.9	.0	.1	.0	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	.1
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.3	4.5	.9	.0	.0	.0	6.7	.9	2.2	.7	.6	.0	.0	4.4	.9	2.2	.7	.6	.0	.0	4.4

HGT	M										NM										PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.8	.0	.0	.0	.0	1.9	.9	5.4	.0	.0	.0	.0	6.3	.9	5.4	.0	.0	.0	.0	6.3
1-2	.0	1.8	.0	.0	.0	.0	1.8	.0	3.2	3.5	.0	.0	.0	5.3	.0	3.2	3.5	.0	.0	.0	5.3
3-4	.0	.0	.0	.0	.0	.0	1.2	.6	2.9	.0	.0	.0	.0	7.0	.6	2.9	.0	.0	.0	.0	7.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	1.2	1.8	.0	.0	.0	3.5	.0	1.2	1.8	.0	.0	.0	3.5
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.0	.0	.0	.0	.0	.0	.6
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	4.1	.6	.0	.0	.0	4.7	1.5	12.7	7.3	1.3	.0	.0	22.8	1.5	12.7	7.3	1.3	.0	.0	22.8

DECEMBER

AREA 0021 S. GULF OF OMAN  
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PERIOD: (PRIMARY)  
(OVERALL) 1963-1970

TABLE 18 (CONT)

HGT	WIND SPEED (KTS) VS SEA HEIGHT (FT)							TOT DSS
	0-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	29.7	12.2	1.3	.0	.0	.0	23.2	229
1-2	2.6	22.3	3.5	.0	.0	.0	28.7	
3-4	.4	9.6	9.2	.0	.0	.0	19.2	
5-6	.0	2.2	3.1	.4	.0	.0	5.7	
7	.0	.0	1.3	.4	.0	.0	1.7	
8-9	.0	.0	.0	.9	.0	.0	.9	
10-11	.0	.0	.4	.4	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	32.8	41.3	18.2	2.2	.0	.0	100.0	

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+ TOTAL	MEAN HGT	
<6	10.3	24.2	12.6	3.8	.3	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	329	2
6-7	.2	.8	2.5	2.8	1.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	48	4
8-9	.0	.2	.5	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7	5
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8
12-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3
>13	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1
INDET	28.6	4.6	1.7	.5	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	215	5
TOTAL	236	180	125	44	12	5	2	0	0	0	0	0	0	0	0	0	0	0	0	604	2
PCT	39.1	29.8	20.7	7.3	2.0	.8	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1969-1971 1965-1971  
 (OVER-ALL) 1865-1971

ANNUAL

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TABLE 1  
 PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	RAIN	RAIN SHWR	ORZL	PRECIPITATION TYPE				HAIL	PCT FREQ PCPN AT OB TIME	TOTAL PCPN OBS	THOR LTNG	OTHER WEATHER PHENOMENA				TOTAL DBS		
				FRZG PCPN	SNOW	OTHER PCPN	PCPN					FG	SMOKE	HAZE	BLWG		DUST	NO SIG
N	.1	*	*	*	.0	.0	.0	*	.1	9	*	*	.4	.4	.1	.1	8.6	933
NE	*	.0	*	*	.0	.0	.0	.0	*	4	*	.1	.4	.4	.1	.1	6.2	688
E	*	.0	*	*	.0	.0	.0	.0	*	2	*	.1	.8	.8	.1	.1	7.4	846
SE	*	.0	*	*	.0	.0	.0	.0	*	2	.1	.1	1.3	1.3	.2	.2	15.1	1097
S	*	.0	.1	*	.0	.0	.0	.0	.1	7	.1	.2	2.0	2.0	.2	.2	14.9	1744
SW	*	.0	*	*	.0	.0	.0	.0	*	3	.1	.2	1.5	1.5	.3	.3	19.8	1202
W	*	.0	*	*	.0	.0	.0	.0	*	3	*	.1	.2	.2	.1	.1	5.0	548
NW	*	.0	*	*	.0	.0	.0	.0	.1	5	*	.1	.4	.4	.3	.3	11.0	1197
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	0
CALM	*	.0	.0	.0	.0	.0	.0	.0	*	1	*	.7	.7	.7	.1	.1	11.0	1202
TOT OBS	21	5	12	0	0	0	0	1	*	38	40	78	797	797	172	8940	10060	
TOT PCT	.2	.1	.1	.0	.0	.0	.0	*	.4		.7	.8	7.8	7.8	1.7	89.0	100.0	

TABLE 2  
 PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	RAIN	RAIN SHWR	ORZL	PRECIPITATION TYPE				HAIL	PCT FREQ PCPN AT OB TIME	TOTAL PCPN OBS	THOR LTNG	OTHER WEATHER PHENOMENA				TOTAL OBS	
				FRZG PCPN	SNOW	OTHER PCPN	FOG WD					SMOKE HAZE	DUST BLWG	NO SIG	WEA		
0000	.1	.1	.1	.0	.0	.0	.0	.0	.3	7	.7	.9	7.1	7.1	1.3	89.9	2690
0600	.1	*	*	.0	.0	.0	.0	.0	.2	5	.0	.9	8.4	8.4	1.7	88.9	2740
1200	.4	*	.1	.0	.0	.0	.0	*	.5	15	.2	.6	9.1	9.1	2.5	87.1	2781
1800	.2	*	.2	.0	.0	.0	.0	.0	.4	11	.7	.6	6.0	6.0	1.1	91.0	2512
TOT	21	5	12	0	0	0	0	1	.4	33	43	82	824	824	177	9534	10693
PCT	.2	*	.1	.0	.0	.0	.0	*	.4		.4	.8	7.7	7.7	1.7	89.2	100.0

## ANNUAL

PERIOD: (PRIMARY) 1949-1971  
(OVER-ALL) 1965-1971AREA 0021 S. GULF OF OMAN  
23.1N 59.3E

TABLE 3

## PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)										TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)					
	0-3	4-10	11-21	22-33	34-47	48+	00	03	06	09				12	15	18	21		
N	1.6	5.4	2.0	.2	.0	*	1032	9.2	7.3	7.3	8.7	9.0	9.9	12.5	7.0	8.1	8.8		
NE	1.4	4.6	.9	*	.0	0	781	7.0	6.8	5.2	7.1	6.3	8.0	9.9	9.7	5.9	6.8		
E	1.5	6.0	.9	*	.0	0	959	8.5	6.6	5.1	10.4	7.4	10.1	12.8	12.3	7.0	6.9		
SE	2.4	10.9	3.4	.1	.0	0	1883	16.8	7.7	15.6	12.5	15.0	13.3	18.6	20.2	18.4	15.2		
S	1.7	8.5	6.3	.7	*	0	1936	17.3	9.5	18.2	15.1	17.3	17.2	14.0	15.6	19.4	18.7		
SW	.9	5.6	4.7	.7	*	0	1342	12.0	9.8	14.8	15.8	13.4	12.4	7.4	10.4	2.0	15.3		
W	1.0	3.2	1.1	.1	*	0	615	5.5	8.2	5.6	10.2	6.6	7.2	3.2	5.5	5.6	9.2		
NW	1.7	6.5	3.2	.4	*	0	1331	11.9	8.2	10.5	12.1	13.8	15.3	12.7	10.4	10.1	10.4		
VAR	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
CALM	11.8	5687	2539	266	6	1	1319	11.8	7.0	16.2	8.1	11.2	6.4	9.0	8.7	13.3	8.3		
TOT OBS	2703	24.6	26.3	2.3	.1	*	11202	100.0	7.8	2586	199	2546	315	2698	258	2338	232		
TOT PCT	24.1	50.8	22.6	2.3	.1	*	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0		

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-6	7-16	17-27	28-40	41+				00	03	06	09	12	15	18	21
N	4.5	4.1	.5	.1	*	1032	9.2	7.3	7.4	7.4	9.0	9.0	12.1	8.2	8.2	8.2
NE	3.8	3.0	.2	.0	.0	781	7.0	6.8	5.3	5.3	6.5	6.5	9.9	6.0	6.0	6.0
E	5.0	3.4	.2	.0	.0	959	8.5	6.6	6.4	6.4	7.7	7.7	12.7	7.0	7.0	7.0
SE	7.5	8.6	.5	*	.0	1883	16.8	7.7	15.6	15.6	14.8	16.7	18.7	18.1	18.1	18.1
S	5.2	9.2	2.3	.1	.0	1936	17.3	9.5	18.0	18.0	17.3	14.9	17.7	19.3	19.3	19.3
SW	3.3	6.2	2.3	.1	*	1342	12.0	9.8	14.9	14.9	13.4	7.7	7.7	12.2	12.2	12.2
W	2.5	2.6	.1	*	.0	615	5.5	8.2	6.1	6.1	6.7	3.4	3.4	6.0	6.0	6.0
NW	4.9	5.8	1.1	.1	.0	1331	11.9	8.2	10.5	10.5	14.0	12.6	10.2	10.2	10.2	10.2
VAR	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	11.8	4797	924	45	2	1319	11.8	7.0	15.7	15.7	10.7	8.0	8.0	12.9	12.9	12.9
TOT OBS	5434	42.9	8.2	45	*	11202	100.0	7.8	2795	2861	2956	2590	2590	2590	2590	2590
TOT PCT	48.5	42.9	8.2	45	*	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

## ANNUAL

PERIOD: (PRIMARY) 1949-1971  
(OVER-ALL) 1865-1971AREA 0021 S. GULF OF OMAN  
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TABLE 4

## PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				48+	PCT		TOTAL OBS
				11-21	22-33	34-47	48+		MEAN	FREQ	
0000	15.7	11.0	47.7	22.9	2.5	.2	.0	.0	7.8	100.0	2795
0600	10.7	13.3	51.5	22.2	2.3	.0	.0	.0	7.7	100.0	2361
1200	8.0	13.0	53.8	22.9	2.2	.0	.0	.0	8.0	100.0	2956
1800	12.9	12.1	50.2	22.5	2.3	.0	.0	.0	7.7	100.0	2590
TOT	1319	1384	5687	2539	266	6	1	1	7.6		11202
PCT	11.8	12.3	50.8	22.6	2.3	.1	.0	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)  
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8-10	UBSCD		TOTAL OBS	MEAN CLOUD COVER
					8	10		
N	7.3	.8	.8	.3	.3	.3	830	1.2
NE	5.2	.7	.7	.1	.1	.1	611	1.5
E	6.0	1.0	.9	.3	.3	.3	732	1.6
SE	13.2	1.9	1.5	.6	.6	.6	1533	1.4
S	13.7	1.4	1.2	.8	.8	.8	1551	1.3
SW	9.0	.9	1.1	.7	.7	.7	1048	1.3
W	4.5	.3	.3	.2	.2	.2	483	1.3
NW	9.5	1.2	.9	.4	.4	.4	1091	1.2
VAR	.0	.0	.0	.0	.0	.0	0	.0
CALM	11.1	.6	.5	.2	.2	.2	1122	.7
TOT OBS	7179	785	728	313	313	313	9005	1.3
TOT PCT	79.4	8.8	8.2	3.5	3.5	3.5	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH 24/8)  
AND OCCURRENCE OF NH 45/8 BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8-10	1000	1500	2000	2500	3000	3500	4000	4500	5000	5500	6000	6500	7000	7500	8000+	NH 45/8	ANY HGT	TOTAL OBS
N	7.3	.8	.8	.3	.3	.3	.3	.3	.3	.3	.3	.3	.3	.3	.3	.3	.3	.3	.3	.3	.3	830
NE	5.2	.7	.7	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	611
E	6.0	1.0	.9	.3	.3	.3	.3	.3	.3	.3	.3	.3	.3	.3	.3	.3	.3	.3	.3	.3	.3	732
SE	13.2	1.9	1.5	.6	.6	.6	.6	.6	.6	.6	.6	.6	.6	.6	.6	.6	.6	.6	.6	.6	.6	1533
S	13.7	1.4	1.2	.8	.8	.8	.8	.8	.8	.8	.8	.8	.8	.8	.8	.8	.8	.8	.8	.8	.8	1551
SW	9.0	.9	1.1	.7	.7	.7	.7	.7	.7	.7	.7	.7	.7	.7	.7	.7	.7	.7	.7	.7	.7	1048
W	4.5	.3	.3	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	483
NW	9.5	1.2	.9	.4	.4	.4	.4	.4	.4	.4	.4	.4	.4	.4	.4	.4	.4	.4	.4	.4	.4	1091
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
CALM	11.1	.6	.5	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	1122
TOT OBS	7179	785	728	313	313	313	313	313	313	313	313	313	313	313	313	313	313	313	313	313	313	9005
TOT PCT	79.4	8.8	8.2	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	100.0

PERIOD: (PRIMARY) 1949-1971  
(OVER-ALL) 1905-1971

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TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE  
OF CEILING HEIGHT (NH > 4/8) AND VSBY (NH)

CEILING (FEET)	VSBY (NH)				
	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2
= OR >5000	.3	.6	.6	.6	.6
= OR >5000	.5	.9	1.0	1.0	1.0
= OR >2500	1.1	1.8	1.9	1.9	2.0
= OR >2000	2.1	3.2	3.4	3.4	3.4
= OR >1000	2.9	4.5	4.8	4.8	4.8
= OR >600	3.3	5.2	5.6	5.7	5.7
= OR >300	3.4	5.5	5.9	6.0	6.0
= OR >150	3.4	5.5	6.0	6.0	6.0
= OR >0	3.4	5.6	6.1	6.2	6.2
TOTAL	322	524	567	571	575
					576

TOTAL NUMBER OF OBS: 9549

PCT FREQ NH <5/8: 94.0

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	9	TOTAL
											OBS
68.5	12.4	6.2	3.9	3.9	2.4	1.5	1.5	1.5	1.9	.1	9977

PERIOD: (PRIMARY) 1949-1971  
(OVER-ALL) 1865-1971

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF  
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
NO PCP	.0	*	.0	*	*	*	*	*	.0	.0	.1	
TOT %	.0	*	.0	*	*	*	*	*	.0	.0	.1	
1/2<1	*	.0	.0	.0	.0	.0	.0	*	.0	.0	*	
NO PCP	.0	.0	.0	.0	*	*	*	.0	.0	.0	*	
TOT %	*	.0	.0	.0	*	*	*	*	.0	.0	.1	
1<2	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	
NO PCP	*	.1	.1	.1	.1	*	*	*	.0	.0	.5	
TOT %	.1	*	.1	.1	.1	*	*	*	.0	.0	.5	
2<5	*	.0	.0	*	*	*	*	*	.0	.0	.1	
NO PCP	.1	.1	.3	.3	.6	.7	.1	.2	.0	.0	2.6	
TOT %	.1	.1	.3	.3	.6	.7	.1	.2	.0	.0	2.7	
5<10	*	*	*	*	*	*	*	*	.0	*	.1	
NO PCP	1.1	1.1	1.7	3.1	4.5	3.3	.8	1.6	.0	1.5	18.7	
TOT %	1.1	1.1	1.7	3.1	4.5	3.3	.8	1.6	.0	1.5	18.9	
10+	*	*	*	*	*	*	*	*	.0	.0	.2	
NO PCP	7.9	5.5	6.4	13.1	12.1	7.8	4.5	10.0	.0	10.3	77.6	
TOT %	8.0	5.5	6.4	13.2	12.1	7.8	4.5	10.0	.0	10.3	77.8	
TOT OBS	9.3	6.8	8.4	16.9	17.4	11.9	5.4	11.9	.0	11.9	100.0	
TOT PCT												10046



PERIOD: (PRIMARY) 1949-1971  
(OVER-ALL) 1965-1971

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TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED  
WITH VARYING VALUES OF VISIBILITY

WIND SPEED (KTS)	SPO KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5<10	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10+	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT OBS		9.2	6.9	8.5	16.9	17.4	12.0	5.5	11.8	.0	11.4	100.0	10885
TOT PCT													

PERIOD: (PRIMARY) 1949-1971  
(OVER-ALL) 1835-1971

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET) NH >+4/8) AND  
OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	050 150	100 155	150 160	200 165	250 170	300 175	350 180	400 185	450 190	500 195	550 200	600 205	650 210	700 215	750 220	800 225	850 230	900 235	950 240	1000 245	TOTAL OBS
00003	.1	.0	.4	.7	1.4	1.5	1.3	.4	.1	.4	6.2	93.8	2438									
06009	.2	.0	.4	1.1	1.6	1.6	.7	.3	.2	.4	6.5	93.5	2597									
12015	.2	.0	.2	.7	.8	1.1	.8	.5	.4	.6	5.4	94.6	2530									
18021	.2	*	.2	.8	1.6	1.6	.9	.2	.1	.2	5.7	94.3	2339									
TOT	15	1	31	80	130	139	87	36	21	39	579	9325	9904									
PCT	.2	*	.3	.8	1.3	1.4	.9	.4	.2	.4	4.0	94.0	100.0									

TABLE 11

PERCENT FREQUENCY VSBY (NH) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.2	*	.2	2.5	16.5	80.6	2337
06009	.1	.0	.1	2.6	17.7	79.5	2516
12015	*	*	.4	3.0	17.6	78.9	2429
18021	.0	*	.1	2.5	17.1	80.2	2268
TOT	8	3	18	245	1612	7664	9550
PCT	.1	*	.2	2.6	17.2	79.8	100.0

TABLE 12

CUMULATIVE PCT FREO OF RANGES OF VSBY (NH) AND/OR  
CEILING HGT (FEET) NH >+4/8) BY HOUR

HOUR (GMT)	<150 <5000	<150 <5000	<1000 <5000	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	.1	.7	3.8	4.9	91.3	2337
06009	.2	.7	4.2	4.8	91.0	2516
12015	.3	.6	4.3	4.1	91.5	2429
18021	.2	.5	3.7	4.4	91.9	2268
TOT	16	56	374	424	8752	9350
PCT	.2	.6	4.0	4.5	91.4	100.0

## ANNUAL

PERIOD: (PRIMARY) 1949-1971  
(OVER-ALL) 1865-1971AREA 0021 S. GULF OF OMAN  
23.1N 59.3E

TABLE 13

## PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
95/99	.0	.0	.0	.2	.1	.1	.1	.3	43	.5
90/94	.0	.0	.2	.8	1.9	2.9	1.4	.3	611	7.6
85/89	.0	.0	.2	.9	2.5	6.0	1.2	1.9	1519	18.7
80/84	.0	.1	.3	1.3	4.1	6.4	9.7	5.0	2195	26.9
75/79	.0	.1	.7	2.0	4.2	6.7	7.0	5.1	2079	25.6
70/74	.0	.1	.4	1.8	4.5	4.7	3.5	2.6	1417	17.6
65/69	.0	.0	.1	.5	.7	.5	.6	.3	424	2.8
60/64	.0	.0	.0	.0	.1	.0	.0	.0	809	1.1
TOTAL	0	16	169	612	1477	2232	2369	1221	8092	100.0
PCT	.0	.2	2.1	7.5	18.1	27.5	29.4	15.2		

TABLE 14

## PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
95/99	.1	.4	.1	.1	.1	.1	.1	.1	.0	.1
90/94	.3	1.2	.9	1.3	1.0	.8	.5	1.0	.0	.8
85/89	1.2	1.2	2.3	4.4	2.8	1.8	1.1	1.7	.0	2.2
80/84	1.8	1.5	2.2	5.3	6.3	4.0	1.3	2.1	.0	2.4
75/79	2.7	1.7	1.4	3.1	5.4	3.9	1.4	3.2	.0	3.1
70/74	2.1	1.7	1.3	2.5	2.0	1.4	1.0	3.0	.0	2.6
65/69	.6	.4	.2	.2	.2	.1	.2	.7	.0	.2
60/64	.1	.1	.0	.0	.0	.0	.1	.1	.0	.0
TOTAL	729	557	669	1381	1423	971	445	961	0	956
PCT	9.0	6.9	8.3	17.1	17.7	12.0	5.5	11.9	.0	11.7

TABLE 15

## MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	HAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00203	94	86	84	78	72	70	63	78.2	2956
06209	97	90	88	81	75	72	61	81.5	2983
12215	99	92	89	82	75	73	67	82.2	3021
18221	97	86	84	79	73	71	61	79.0	2142
TOT	99	90	87	80	74	71	61	80.2	11762

TABLE 16

## PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00203	.0	6.0	13.1	23.0	33.1	24.8	50	2189
06209	.0	12.5	18.7	32.1	26.6	9.2	14	2227
12215	.0	13.6	24.3	30.4	24.5	7.0	13	2176
18221	.0	6.5	15.6	24.8	33.3	19.7	19	2014
TOT	0	847	1585	2358	2505	1281	76	8606

PERIOD: (PRIMARY) 1949-1971  
(OVER-ALL) 1805-1971

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AREA 0021 S. GULF OF OMAN  
23-IN 59.3E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)  
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	61		65		69		73		77		81		85		89		93		TCT	W		WD FOG
	14/16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		FOG	FOG	
11/13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	3
6/10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	61	0	0	7
7/8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	129	0	0	1.4
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	267	0	0	2.8
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	189	0	0	2.0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	325	0	0	2.5
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	418	0	0	4.5
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	502	0	0	5.4
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	765	0	0	8.9
-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	829	0	0	8.9
-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1156	0	0	12.3
-3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1074	0	0	11.4
-4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1015	0	0	10.6
-5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	769	0	0	8.1
-6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	675	0	0	7.1
-7/-8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	426	0	0	4.5
-9/-10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	284	0	0	3.1
-11/-13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	294	0	0	3.2
-14/-16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	86	0	0	0.9
TOTAL	11	148	910	1757	1934	2011	1528	812	193	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	9320	75	9237	99.1
PCT	.1	1.6	9.8	18.9	20.7	21.5	16.4	8.7	1.9	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	100.0	.8	99.1	99.1

ANNUAL  
TABLE 18  
PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

AREA 0031 S. GULF OF OMAN  
23.1N 59.3E

PERIOD: (PRIMARY)  
(OVER-ALL) 1963-1971

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	NE	22-33	34-47	48+	PCT
<1	1.0	1.5	1.1	.0	.0	.0	.0	.0	.0	.0	2.2
1-2	1.2	3.3	.4	.0	.0	.0	.0	.0	.0	.0	4.0
3-4	.0	1.2	1.7	.0	.0	.0	.0	.0	.0	.0	1.7
5-6	.0	1.3	.5	.1	.0	.0	.0	.0	.0	.0	.4
7	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.1
8-9	.0	.0	.1	.2	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.2	6.3	3.1	.3	.0	.0	1.3	5.7	1.4	.0	8.5

HGT	1-3	4-10	11-21	22-33	34-47	48+	SE	22-33	34-47	48+	PCT
<1	.6	1.3	.4	.0	.0	.0	.0	.0	.0	.0	3.6
1-2	.4	3.9	.9	.0	.0	.0	.0	.0	.0	.0	7.2
3-4	.1	1.1	.3	.0	.0	.0	.0	.0	.0	.0	3.6
5-6	.0	.2	.3	.0	.0	.0	.0	.0	.0	.0	.9
7	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.2
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.1	6.6	1.7	.0	.0	.0	1.3	10.3	4.0	.0	15.7

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.9	1.6	.1	.0	.0	.0	2.7	.1	1.5	.1	.0	.0	.0	1.6
1-2	.9	5.4	1.5	.0	.0	.0	7.6	.3	3.3	.7	.0	.0	.0	4.2
3-4	*	2.4	3.5	.1	.0	.0	6.0	.0	1.2	2.7	.2	.0	.0	4.1
5-6	.0	.4	2.3	.4	.0	.0	3.1	.0	.2	1.6	.2	.0	.0	2.0
7	.0	.1	.8	.2	.0	.0	1.1	.0	.0	.6	.1	.0	.0	.6
8-9	.0	*	.3	.1	.0	.0	.4	.0	*	.1	.3	.0	.0	.4
10-11	.0	.0	.1	.1	.0	.0	.2	.0	*	*	*	.0	.0	.1
12	.0	.0	.0	*	.0	.0	*	.0	.0	.0	*	.0	.0	*
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.5	9.9	8.6	.9	.0	.0	20.3	.4	6.2	5.7	.6	.0	.0	13.1

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	.8	.0	.0	.0	.0	1.2	1.0	1.8	.2	.0	.0	.0	3.0
1-2	.2	2.6	.6	.0	.0	.0	3.4	.3	3.3	1.1	.0	.0	.0	5.0
3-4	*	.7	.8	.0	.0	.0	1.6	*	1.5	2.6	.1	.0	.0	4.2
5-6	.0	*	.2	.0	.0	.0	.2	.0	.4	1.2	.2	.0	.0	1.8
7	.0	.0	.1	.0	.0	.0	.1	.0	.0	.3	.1	.0	.0	.4
8-9	.0	.0	.0	.0	.0	.0	*	.0	.0	.1	.0	*	.0	.2
10-11	.0	*	.0	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.7	4.2	1.7	.0	.0	.0	6.7	1.6	7.0	5.5	.6	*	.0	14.7

PERIOD: (PRIMARY)  
(COVER-ALL) 1963-1971

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TABLE 18 (CONT)

HGT	WIND SPEED (KTS) VS SEA HEIGHT (FT)							TOT DBS
	3-9	10-19	20-29	30-39	40-49	50+	PCT	
<1	20.6	10.4	.6	.0	.0	.0	31.5	
1-2	2.6	25.6	5.4	.0	.0	.0	33.6	
3-4	.3	9.4	12.0	.3	.0	.0	22.0	
5-6	.0	1.6	6.0	.9	.0	.0	8.5	
7	.0	.1	2.1	.4	.0	.0	2.5	
8-9	.0	.0	.6	.6	.0	.0	1.2	
10-11	.0	.1	.1	.2	.0	.0	.4	
12	.0	.0	.0	.1	.0	.0	.2	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	23.5	47.1	26.8	2.4	.0	.0	100.0	

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	10.2	22.7	15.6	3.9	.8	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4024
6-7	.2	1.0	3.8	4.4	1.5	.4	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	873
8-9	.0	.3	.7	1.0	.9	.6	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	280
10-11	.0	.0	.2	.4	.2	.3	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	122
12-13	.0	.0	.0	.1	.1	.1	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	46
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	12
INDEX	20.3	4.9	2.2	.8	.3	.2	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2174
TOTAL	2322	2193	1696	794	296	134	51	21	5	0	0	0	0	0	0	0	0	0	0	0	7532
PCT	30.8	29.2	22.6	10.5	3.9	1.8	.7	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0

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TABLE 20

AREA 0021 S. GULF OF OMAN  
23.1N 59.3E

PERCENT FREQUENCY OF OCCURRENCE OF SEA TEMP (OEG F) BY MONTH

SEA TMP OEG F	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN	PCT
96+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
95/96	.0	.0	.0	.0	.0	.2	.2	.1	.0	.0	.0	.0	3	.0
93/94	.0	.0	.0	.0	.0	1.2	1.2	1.2	.8	.0	.0	.0	41	.4
91/92	.0	.0	.0	.0	.6	5.9	7.8	4.4	2.7	.4	.0	.0	190	1.8
89/90	.0	.0	.0	.0	3.3	20.7	19.4	13.3	8.7	2.7	.2	.0	594	5.7
87/88	.0	.0	.0	.1	9.4	22.2	14.9	14.4	13.0	9.4	1.6	.0	740	7.1
85/86	.0	.0	.0	2.0	27.5	18.7	19.8	15.2	20.3	25.6	4.5	.2	1080	10.3
83/84	.0	.3	.4	8.6	27.9	10.4	9.6	8.4	13.2	27.7	21.1	1.2	1135	10.8
81/82	.2	.2	2.6	29.5	21.5	9.0	9.1	8.3	13.6	20.5	33.6	5.4	1374	13.1
79/80	2.7	2.8	12.8	27.5	7.2	5.4	7.7	10.0	8.5	9.2	24.9	20.6	1218	11.6
77/78	14.7	10.2	28.0	20.5	2.0	3.0	6.9	6.4	7.0	8	3.6	22.2	1376	13.0
75/76	36.3	29.3	35.0	8.6	.5	1.8	6.3	6.6	6.1	.7	.3	11.6	1047	10.0
73/74	33.3	39.8	14.7	2.2	.1	.5	5.1	6.1	3.7	.2	.1	1.8	344	3.3
71/72	10.5	13.7	4.6	.4	.0	.5	1.6	3.7	2.2	.7	.1	.5	67	.5
69/70	2.0	2.7	1.0	.1	.0	.0	.3	.9	.3	.0	.0	.1	23	.2
67/68	.4	1.0	.7	.0	.0	.0	.0	.1	.0	.0	.0	.0	1	.0
65/66	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	2	.0
63/64	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
61/62	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
59/60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
57/58	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
55/56	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
53/54	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
51/52	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
49/50	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
47/48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
45/46	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
43/44	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
41/42	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
39/40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
37/38	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
35/36	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
33/34	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
31/32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
29/30	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
27/28	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
427	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
TOTAL	857	309	897	833	839	866	887	900	774	961	915	868	10496	100.0
MEAN	74.6	74.2	76.1	79.6	83.8	85.8	84.1	83.0	83.1	83.6	81.0	77.3	80.5	



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TABLE 21  
PRESSURE (MB)

MO	AVERAGE BY HOUR (GMT)												TOTAL OBS	EXTREMES			
	0000	0300	0600	0900	1200	1500	1800	2100	MEAN	MAX YEAR	MAX OA	MIN YEAR		MIN DA			
JAN	1015	1017	1019	1017	1016	1017	1018	1016	1017	1027	1964	18 06	896	1000	1954	03 00	
FEB	1014	1015	1017	1015	1014	1013	1015	1015	1015	1028	1957	09 06	936	987	1954	15 18	
MAR	1012	1014	1014	1013	1012	1012	1013	1013	1013	1023	1957	09 18	933	998	1965	26 12	
APR	1009	1008	1011	1010	1009	1010	1010	1009	1010	1021	1965	07 06	856	997	1956	18 12	
MAY	1004	1006	1006	1006	1005	1006	1005	1005	1005	1011	1966	02 12	891	989	1965	24 12	
JUN	999	1001	1002	999	999	999	999	998	999	1011	1966	02 12	892	984	1956	19 00	
JUL	997	998	999	999	997	999	998	998	998	1014	1960	23 12	918	984	1965	14 12	
AUG	999	1001	1001	1001	999	1000	1000	1000	1000	1013	1949	30 12	953	989	1964	03 00	
SEP	1004	1006	1006	1006	1004	1004	1006	1006	1005	1015	1952	29 06	789	989	1959	10 00	
OCT	1011	1013	1013	1012	1011	1011	1012	1011	1012	1022	1963	30 06	972	1001	1961	08 18	
NOV	1015	1016	1017	1015	1015	1016	1016	1015	1016	1025	1955	21 06	954	1002	1953	07 00	
DEC	1013	1017	1018	1016	1016	1017	1017	1017	1017	1026	1951	04 18	885	999	1953	29 00	
ANY	1008	1010	1010	1009	1008	1009	1009	1009	1009				10877				
OBS	2574	126	2569	243	2610	198	2384	167									

PERCENTILES

MO	1%	5%	25%	50%	75%	95%	97%
JAN	1006	1012	1015	1017	1019	1022	1024
FEB	1005	1009	1013	1015	1017	1020	1022
MAR	1003	1008	1011	1013	1015	1018	1020
APR	1001	1004	1008	1010	1012	1015	1017
MAY	996	999	1003	1005	1007	1011	1013
JUN	991	994	997	999	1002	1005	1008
JUL	989	992	996	998	1000	1003	1006
AUG	991	995	998	1000	1002	1005	1009
SEP	994	999	1002	1005	1007	1011	1012
OCT	1004	1005	1010	1012	1014	1016	1018
NOV	1009	1011	1014	1016	1017	1020	1022
DEC	1006	1012	1015	1017	1019	1021	1023

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AREA 0022 S. E. PERSIAN GULF  
26.0N 54.7E

PERIOD: (PRIMARY) 1938-1971  
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TABLE 1

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	RAIN	RAIN SHWR	DRZL	PRECIPITATION TYPE			HAIL	PCT FREQ		TOTAL	THDR LTNG	OTHER WEATHER PHENOMENA					TOTAL OBS
				PCPN	FRZG	SNOW	OTHER	PCPN	OB TIME			PCPN	WD	HAZE	BLWG	GUST	
N	.0	.0	.1	.0	.0	.0	.0	.0	.1	4	.0	.0	.0	.2	.0	.0	66
NE	.7	.3	.1	.0	.0	.0	.0	.0	1.1	4	.2	.0	.0	.7	.5	.0	90
E	.4	.3	.1	.0	.0	.0	.0	.0	1.0	4	.0	.0	.0	.0	.0	.0	72
SE	.2	.0	.1	.0	.0	.0	.0	.0	.2	1	.0	.0	.0	.0	.0	.0	23
S	.0	.0	.0	.0	.0	.0	.0	.0	.1	0	.1	.0	.0	.1	.0	.0	21
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.1	.0	.0	.6	.0	.0	43
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.4	.2	.0	113
NW	.0	.0	.1	.0	.0	.0	.0	.0	.0	0	.0	.2	.2	1.4	.0	.0	96
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
TOT OBS	.8	.3	.3	.0	.0	.0	.0	.0	.0	16	.2	.0	.0	.7	.9	.0	73
TOT PCT	1.3	.6	.5	.0	.0	.0	.0	.0	2.7	16	.3	.2	.1	2.9	1.5	.0	402
														4.8			100.0

TABLE 2

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	RAIN	RAIN SHWR	DRZL	PRECIPITATION TYPE			HAIL	PCT FREQ		TOTAL	THDR LTNG	OTHER WEATHER PHENOMENA					TOTAL OBS
				PCPN	FRZG	SNOW	OTHER	PCPN	OB TIME			PCPN	WD	HAZE	BLWG	GUST	
00003	1.3	1.3	.6	.0	.0	.0	.0	.0	3.2	5	.6	.6	.0	5.7	.6	.0	158
06009	.0	.6	.6	.0	.0	.0	.0	.0	1.2	2	.0	.0	.0	4.2	1.2	.0	165
12015	1.7	.6	.6	.0	.0	.0	.0	.0	2.6	5	.0	.0	.0	10.2	3.4	.0	175
18021	1.9	.6	.0	.0	.0	.0	.0	.0	2.6	4	.6	.6	.0	5.2	.0	.0	154
TOT	.8	.3	.3	.0	.0	.0	.0	.0	2.6	16	.2	.2	.0	4.2	.9	.0	653
PCT	1.2	.8	.5	.0	.0	.0	.0	.0	2.5	16	.3	.3	.3	6.4	1.4	.0	100.0

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PERIOD1 (PRIMARY) 1938-1971  
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AREA 0022 S. E. PERSIAN GULF  
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TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)										HOUR (GMT)											
	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPO	00	03	06	09	12	15	18	21					
N	1.7	6.5	1.3	.1	.1	.0	71	10.1	7.0	11.6	4.8	11.7	5.9	9.8	1.9	11.1	6.3					
NE	1.4	9.0	4.2	.1	.0	.0	104	14.7	8.9	9.9	9.5	23.6	27.0	15.2	9.3	18.7	13.3					
E	1.7	7.6	3.4	.1	.0	.0	90	12.8	9.0	6.9	16.7	11.7	11.8	17.0	22.2	12.0	16.7					
SE	.6	2.4	.6	.3	.0	.0	27	3.9	9.1	5.5	7.1	4.6	3.9	3.0	1.9	3.0	1.7					
S	.7	1.9	.7	.1	.0	.0	24	3.5	8.6	2.0	2.4	5.7	6.6	4.0	3.7	.7	1.7					
SW	1.6	4.4	1.1	.4	.0	.0	53	7.5	8.0	7.6	16.7	4.8	11.8	5.1	14.8	5.6	23.3					
W	2.7	9.3	6.2	.5	.2	.0	134	18.9	9.6	19.8	16.7	16.8	15.8	20.8	14.8	21.1	13.3					
NW	2.6	8.2	4.7	1.1	.2	.0	119	16.8	10.0	19.6	16.7	12.6	17.1	16.2	20.4	18.5	15.0					
VAR	.0	.0	.0	.0	.0	.0	84	11.8	.0	.0	.0	.0	.0	.0	.0	.0	.0					
CALM	11.8	352	158	20	4	0	84	11.8	.0	16.1	9.5	8.5	.0	8.9	11.1	19.3	6.7					
TOT OBS	175	49.6	22.3	2.8	.6	.0	709		7.9	149	21	141	38	168	27	135	30					
TOT PCT	24.7							100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0					

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					41+	TOTAL OBS	PCT FREQ	MEAN SPO	HOUR (GMT)						
	0-6	7-16	17-27	28-40	00					03	06	09	12	15	18	21
N	5.9	3.9	1.2	.1	.0	71	10.1	7.0	10.7	10.5	8.7	10.6	10.6			
NE	6.0	7.3	1.4	.0	.0	104	14.7	8.9	9.9	24.3	14.4	9.5	19.5			
E	4.5	7.1	1.2	.0	.0	90	12.8	9.0	8.1	11.7	17.7	12.9	12.9			
SE	1.7	1.7	.5	.0	.0	27	3.9	9.1	5.7	4.3	2.8	2.7	2.7			
S	1.6	1.4	.4	.0	.0	24	3.5	8.6	2.9	5.9	4.0	.9	.9			
SW	3.4	3.5	.6	.0	.0	53	7.5	8.0	8.7	6.3	6.4	8.8	8.8			
W	7.0	9.9	1.8	.3	.0	134	18.9	9.6	19.4	16.6	20.6	19.7	19.7			
NW	6.8	7.4	2.0	.6	.0	119	16.8	10.0	19.3	13.5	16.8	17.9	17.9			
VAR	.0	.0	.0	.0	.0	84	11.8	.0	.0	.0	.0	.0	.0			
CALM	11.8	298	118	8	0	84	11.8	7.9	15.3	6.7	9.2	17.0	17.0			
TOT OBS	845	42.0	8.2	1.1	.0	709	100.0		170	179	193	165	165			
TOT PCT	48.7								100.0	100.0	100.0	100.0	100.0			

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47	48+				
0000	15.3	12.4	47.1	22.4	2.4	.6	.0	.0	7.6	100.0	170
0600	6.7	16.2	53.6	19.6	3.4	.6	.0	.0	8.0	100.0	179
1200	9.2	10.8	54.4	22.6	2.6	.5	.0	.0	8.1	100.0	198
1800	17.0	12.1	42.4	24.8	2.0	.6	.0	.0	7.9	100.0	165
TOT	84	91	352	158	20	4	0	0	7.9		709
PCT	11.8	12.8	49.6	22.3	2.8	.6	.0	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)  
BY WIND DIRECTION

WIND DIR	PCT FREQ				TOTAL OBS	MEAN CLOUD COVER
	0-2	3-4	5-7	8-10		
N	7.8	1.4	.8	.9	56	1.3
NE	8.6	1.0	3.3	1.5	75	2.8
E	6.4	1.6	2.5	1.8	63	2.1
SE	2.0	.2	.8	.5	18	3.0
S	1.9	.5	.8	.1	16	2.8
SW	4.6	.1	.7	.3	29	1.3
W	14.9	2.6	2.5	.2	104	1.6
NW	11.0	2.8	2.0	.7	85	1.9
VAR	.0	.0	.0	.0	0	.0
CALM	10.4	1.5	1.4	.0	59	1.2
TOT OBS	350	61	76	31	518	2.1
TOT PCT	67.6	11.4	14.7	6.0	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT) NH >4/8  
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WIND DIR	PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT) NH >4/8												TOTAL OBS
	000	149	150	299	300	599	600	999	1000	2000	3499	5000	
N	.0	.0	.0	.0	.0	.0	.0	.0	.3	.3	.2	.0	55
NE	.0	.0	.0	.0	.4	.3	.2	.3	.9	.8	.5	.1	75
E	.0	.0	.0	.0	.3	.3	.8	.2	.9	.8	.2	.1	63
SE	.0	.0	.0	.0	.0	.0	.4	.4	.2	.0	.1	.2	18
S	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.1	.0	16
SW	.0	.0	.0	.0	.0	.0	.2	.2	.1	.2	.1	.0	29
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.2	.2	104
NW	.0	.0	.0	.0	.0	.0	.4	.4	.6	.4	.0	.3	85
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
CALM	.0	.0	.0	.0	.4	.4	.8	.8	.2	.2	.0	.5	69
TOT OBS	0	0	0	0	4	4	8	17	3.3	12	10	5	516
TOT PCT	0	0	0	0	.8	.8	1.3	3.3	2.3	1.9	1.0	1.5	100.0

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TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE  
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	OR		OR		VSBY (NM)		OR		OR		OR	
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0	>0	>0	>0	
OR >6500	2.0	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	
OR >5000	2.6	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	
OR >3500	3.7	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	
OR >2000	5.4	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	
OR >1000	7.6	10.9	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	
OR >600	8.3	12.4	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6	
OR >300	8.9	13.1	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3	
OR >150	8.9	13.1	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3	
OR >0	8.9	13.1	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3	
TOTAL	48	71	72	72	72	72	72	72	72	72	72	

TOTAL NUMBER OF OBS: 540 P/LT FREQ NM <5/8: 86.7

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

D	1	2	3	4	5	6	7	8	085CD	TOTAL
50.6	17.2	10.4	5.2	3.3	3.0	4.5	3.3	3.5	.0	575

PERIOD: (PRIMARY) 1938-1971  
(OVER-ALL) 1908-1971

JANUARY

AREA 0022 S. E. PERSIAN GULF  
26.0N 54.7E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF  
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NO PCP	.0	.3	.2	.0	.0	.0	.0	.2	.0	.0	.7	.7
TOT %	.0	.3	.2	.0	.0	.0	.0	.2	.0	.0	.7	.7
PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NO PCP	.1	.0	.2	.1	.1	.0	.0	.1	.0	.0	.5	.5
TOT %	.1	.0	.2	.1	.1	.0	.0	.1	.0	.0	.5	.5
PCP	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.2	.2
NO PCP	.2	.2	.0	.2	.1	.4	.3	.2	.0	.0	1.5	1.7
TOT %	.2	.2	.1	.2	.1	.4	.3	.2	.0	.0	1.7	1.7
PCP	.0	.5	.5	.2	.1	.0	.0	.0	.0	.0	1.3	1.3
NO PCP	1.5	1.8	2.5	1.2	1.0	.6	1.7	2.4	.0	1.0	13.6	15.0
TOT %	1.5	2.3	2.9	1.5	1.2	.6	1.7	2.4	.0	1.0	15.0	15.0
PCP	.1	.5	.5	.0	.0	.0	.0	*	.0	.0	1.2	1.2
NO PCP	9.2	11.5	8.3	2.2	2.3	6.1	16.8	13.1	.0	11.5	81.1	92.3
TOT %	9.3	12.1	8.7	2.2	2.3	6.1	16.8	13.2	.0	11.5	82.2	92.3
TOT OBS	11.0	15.0	12.0	3.9	3.6	7.1	19.8	16.0	.0	12.5	100.0	602
TOT PCT	11.0	15.0	12.0	3.9	3.6	7.1	19.8	16.0	.0	12.5	100.0	602

PERIOD (PRIMARY) 1938-1971  
(OVER-ALL) 1908-1971

JANUARY

AREA 0022 S. E. PERSIAN GULF  
26.01 56.7E

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED  
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPO KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL CRS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.1	.1
	11-21	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.3	.3
	22+	.0	.1	.1	.0	.0	.0	.0	.1	.0	.0	.6	.6
	TOT %	.0	.3	.3	.0	.0	.0	.0	.1	.0	.0	.2	.2
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.1	.1	.1	.0	.0	.0	.0	.0	.3	.3
	11-21	.1	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1	.1
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.1	.0	.1	.1	.1	.0	.0	.1	.0	.0	.4	.4
2<5	0-3	.0	.0	.0	.0	.0	.1	.1	.1	.0	.0	.4	.4
	4-10	.0	.0	.1	.1	.0	.1	.0	.0	.0	.0	.7	.7
	11-21	.1	.2	.1	.0	.0	.1	.1	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.4	.3	.1	.0	.0	1.6	1.6
	TOT %	.1	.2	.2	.1	.1	.4	.3	.1	.0	.0	1.6	1.6
5<10	0-3	.2	.2	.4	.0	.0	.3	.7	.1	.0	1.0	3.0	3.0
	4-10	.8	1.5	1.6	.9	.6	.1	.9	1.2	.0	.0	7.6	7.6
	11-21	.3	.9	.9	.4	.4	.0	.3	.8	.0	.0	4.0	4.0
	22+	.0	.0	.0	.0	.0	.1	.3	.2	.0	.0	.6	.6
	TOT %	1.3	2.6	3.0	1.3	1.0	.6	2.1	2.4	.0	1.0	15.3	15.3
10+	0-3	1.5	1.1	1.3	.6	.7	1.1	1.8	2.3	.0	11.1	21.5	21.5
	4-10	6.2	7.2	5.8	1.3	1.3	4.0	8.2	6.8	.0	.0	40.8	40.8
	11-21	.8	3.0	2.4	.3	.3	1.1	5.6	3.9	.0	.0	17.4	17.4
	22+	.2	.0	.1	.3	.1	.3	.4	1.0	.0	.0	4.4	4.4
	TOT %	8.7	11.3	9.6	2.4	2.4	6.5	16.1	13.9	.0	11.1	82.1	82.1
TOT DAS													694
TOT PCT		10.2	14.5	13.0	4.0	3.0	7.4	18.5	15.6	.0	12.1	100.0	

PERIOD: (PRIMARY: 1938-1971  
(OVER-ALL) 1908-1971)

JANUARY

AREA 0022 S. E. PERSIAN GULF  
26.0N 54.7E

TABLE 10  
PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH > 4/8) AND  
OCCURRENCE OF NH < 5/8 BY HOUR

HOUR (GMT)	000 149	130 299	300 599	400 999	500 4999	600 5999	700 6999	800+ 7999	TOTAL	NH < 5/8 ANY HGT	TOTAL OBS
00003	.0	.0	.7	.0	2.2	.0	.0	.0	8.1	91.9	136
06009	.0	.0	.7	.0	5.0	1.4	1.4	2.1	17.0	83.0	141
12015	.0	.0	1.3	2.6	2.0	.0	1.3	2.0	12.6	87.4	151
18021	.0	.0	.0	2.8	3.5	2.1	1.4	1.4	12.6	87.4	143
TOT PCT	0 .0	0 .0	4 .7	8 1.4	18 3.2	13 2.3	6 1.1	5 .9	72 12.6	499 87.4	571 100.0

TABLE 11

PERCENT FREQUENCY VSBY (NH) BY HOUR

HOUR (GMT)	< 1/2	1/2 < 1	1 < 2	2 < 5	5 < 10	10+	TOTAL OBS
00003	.0	.0	.0	.8	13.6	85.6	125
06009	.0	.0	.0	.7	12.6	86.7	135
12015	.0	.0	.7	.0	17.1	82.2	146
18021	.0	.0	.0	.0	13.4	86.6	134
TOT PCT	0 .0	0 .0	1 .2	2 .4	77 14.3	460 85.2	540 100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NH) AND/OR  
CEILING HGT (FEET, NH > 4/8), BY HOUR

HOUR (GMT)	< 150 < 5000	< 600 < 1	< 1000 < 3	1000+ AND 5+	NH < 5/8 AND 5+	TOTAL OBS
00003	.0	.8	1.6	7.2	91.2	125
06009	.0	.7	1.5	17.0	81.5	135
12015	.0	1.4	4.8	8.9	86.3	146
18021	.0	.0	3.0	10.4	86.6	134
TOT PCT	0 .0	4 .7	15 2.8	59 10.9	466 86.3	540 100.0



JANUARY

PERIOD: (PRIMARY) 1938-1971  
(OVER-ALL) 1908-1971

AREA 0022 S. E. PERSIAN GULF  
26.0N 54.7E

TABLE 13

TEMP F	PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP											TOTAL DBS	PCT FREQ
	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100					
80/84	.0	.2	.0	.4	.2	.0	.0	.0				4	.9
75/79	.0	.0	.4	1.5	2.6	3.1	.6	.0				36	7.7
70/74	.0	.4	3.4	7.5	10.9	13.2	9.4	3.2				225	49.0
65/69	.0	.2	1.3	4.9	8.3	10.4	7.0	4.3				171	36.5
60/64	.0	.0	.9	2.1	.9	.9	.5	.2				20	5.5
55/59	.0	.0	.0	.6	.6	.2	.0	.0				7	1.5
TOTAL	.0	.4	3.0	8.0	11.0	26.9	8.3	3.6				469	100.0
PCT	.0	.9	5.4	17.1	23.5	20.9	17.7	7.7					

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP											VAR	CALM
TEMP F	N	NE	E	SE	S	SW	W	NW	VAR	CALM		
80/84	.0	.4	.0	.0	.0	.0	.4	.0	.0	.0	.0	.0
75/79	.8	.9	1.0	.2	.5	.4	2.5	.9	.0	.0	.4	.4
70/74	5.1	5.7	7.0	1.3	1.3	4.3	8.4	8.0	.0	.0	6.8	6.8
65/69	4.9	5.1	2.9	2.7	.7	2.2	7.7	6.6	.0	.0	3.6	3.6
60/64	.4	1.7	1.0	.2	.4	.0	.4	1.2	.0	.0	.4	.4
55/59	.2	.4	.0	.0	.0	.0	.2	.5	.0	.0	.2	.2
TOTAL	11.2	14.2	11.9	4.4	3.0	6.9	19.6	17.2	.0	.0	11.5	11.5
PCT	11.2	14.2	11.9	4.4	3.0	6.9	19.6	17.2	.0	.0	11.5	11.5

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR											TOTAL DBS
HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN			
0000	79	75	73	68	63	58	53	68.3			184
0600	80	79	76	70	64	57	57	70.3			190
1200	82	81	78	72	64	60	59	71.3			208
1800	83	80	76	70	63	58	57	69.9			173
TOT	83	80	76	70	63	58	55	69.9			755

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR											TOTAL DBS
HOUR (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN				
0000	.0	15.3	22.0	29.7	23.7	9.3	73				116
0600	.0	27.3	18.2	28.9	17.4	8.3	70				121
1200	.0	28.9	28.1	25.0	12.5	5.5	67				128
1800	.0	23.8	27.0	26.2	10.4	6.6	69				122
TOT	.0	11.7	11.7	13.4	8.5	3.6	70				489

PERIOD: (PRIMARY) 1938-1971  
(OVER-ALL) 1906-1971

JANUARY

AREA 0022 S. E. PERSIAN GULF  
26.0N 54.7E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)  
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TEMP DIFF	53	57	61	65	69	73	77	81	TOT	W FOG	NO FOG
9/10	.0	.0	.0	.0	.0	.0	.0	.2	1	.0	12
7/8	.0	.0	.0	.0	.0	.2	.4	.4	3	.0	.9
6	.0	.0	.0	.0	.2	.6	.2	.0	5	.0	.9
5	.0	.0	.0	.0	.0	.7	.6	.2	8	.0	1.5
4	.0	.0	.0	.2	.7	.4	.6	.0	10	.0	1.8
3	.0	.0	.0	.2	.2	.9	.2	.0	8	.0	1.5
2	.0	.0	.0	.0	1.1	2.9	.0	.0	22	.0	4.0
1	.0	.0	.0	.0	2.0	2.4	.2	.0	25	.0	4.6
0	.0	.0	.0	.4	4.4	3.7	.0	.0	46	.0	8.5
-1	.0	.0	.0	.2	5.5	3.1	.4	.0	49	.0	9.0
-2	.0	.0	.2	1.8	6.3	1.7	.6	.0	57	.2	10.3
-3	.0	.0	.0	2.8	6.8	1.1	.0	.0	58	.2	10.5
-4	.0	.0	.2	3.1	5.5	.9	.2	.0	54	.0	9.9
-5	.0	.0	.6	3.9	4.2	.6	.0	.0	50	.0	9.2
-6	.0	.0	.7	3.5	3.9	.0	.0	.0	42	.0	7.7
-7/-8	.0	.0	.4	4.0	3.5	.0	.0	.0	36	.0	10.3
-9/-10	.0	.2	1.5	3.1	.9	.0	.0	.0	31	.0	5.7
-11/-13	.0	.7	.6	.4	.2	.0	.0	.0	10	.0	1.8
-14/-16	.2	1.1	.0	.0	.0	.0	.0	.0	7	.0	1.3
TOTAL	1	11	22	128	257	104	17	4	544	2	542
PCT	.2	2.0	4.0	23.5	47.2	19.1	3.1	.7	100.0	.4	99.6

PERIOD: (PRIMARY)  
(OVER-ALL) 1963-1971

JANUARY

AREA 0022 S.E. PERSIAN GULF  
26-0N 54.7E

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N				NE				48+	PCT			
	1-3	4-10	11-21	22-33	34-47	48+	1-3	4-10			11-21	22-33	34-47
<1	.0	3.8	.0	.0	.0	.0	.0	3.5	.0	.0	.0	.0	3.5
1-2	.0	3.3	.8	.0	.0	.0	.0	7.9	2.4	.0	.0	.0	10.3
3-4	.0	.0	.8	.0	.0	.0	.0	1.1	4.6	.0	.0	.0	5.7
5-6	.0	.0	.0	.0	.0	.0	.0	.0	3.3	.0	.0	.0	3.3
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	1.1	.0	.0	.0	1.1
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	7.1	1.6	.0	.0	.0	.0	12.5	11.4	.0	.0	.0	23.9

HGT	E					SE					48+	PCT
1-3	4-10	11-21	22-33	34-47	48+	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.1	2.2	.0	.0	.0	1.1	2.7	.0	.0	.0	.0	3.8
1-2	.0	4.1	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	1.1	.0	.0	.0	1.1
5-6	.0	.0	.0	.0	.0	.0	.0	1.1	.0	.0	.0	1.1
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.1	6.3	4.1	.8	.0	1.1	3.0	2.2	.3	.0	.0	6.5

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.6	.0	.0	.0	.0	1.6	.0	.3	.0	.0	.0	.0	.3
1-2	.0	1.9	.0	.0	.0	.0	1.9	.0	2.4	.0	.0	.0	.0	2.4
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.1	.0	.0	.0	1.1
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-58	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	3.5	.0	.0	.0	.0	3.5	.0	2.7	1.1	.0	.0	.0	5.8

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.1	3.0	.0	.0	.0	.0	4.1	1.1	5.7	.0	.0	.0	.0	6.8
1-2	.0	.8	.8	.0	.0	.0	1.6	.0	6.5	2.7	.0	.0	.0	9.2
3-4	.0	1.1	3.5	.0	.0	.0	4.6	.0	2.2	1.9	2.2	.0	.0	6.3
5-6	.0	1.1	2.2	.0	.0	.0	3.3	.0	.0	2.2	.0	.0	.0	2.2
7	.0	.0	.0	.0	.0	.0	.8	.0	.0	.0	1.4	.0	.0	2.4
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.1	6.0	6.5	.0	.0	.0	14.4	1.1	14.4	5.8	3.5	1.1	.0	26.9

PERIOD: (PRIMARY)  
(OVER-ALL) 1963-1971

JANUARY

AREA 0022 S. E. PERSIAN GULF  
26.0N 54.7E

TABLE 18 (CONT)

HGT	WIND SPEED (KTS) VS SEA HEIGHT (FT)						TOT OBS
	0-3	4-10	11-21	22-33	34-47	49+	
<1	22.8	18.4	.0	.0	.0	.0	41.2
1-2	.0	21.9	6.1	.0	.0	.0	28.1
3-4	.0	3.5	12.3	1.8	.0	.0	17.5
5-6	.0	.9	7.0	.0	.0	.0	7.9
7	.0	.0	.9	1.8	.9	.0	3.5
8-9	.0	.0	.9	.9	.0	.0	1.8
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-43	.0	.0	.0	.0	.0	.0	.0
44-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	22.8	44.7	27.2	4.4	.9	.0	100.0
							114

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+ TOTAL	MEAN HGT
<6	11.8	28.9	13.1	3.5	.8	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	232
6-7	.3	1.3	1.0	3.5	.8	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	29
8-9	.3	.3	.3	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4
10-11	.0	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4
12-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
MEAN	24.9	4.5	2.5	.5	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	130
TOTAL	145	140	68	30	8	4	0	0	0	0	0	0	0	0	0	0	0	0	0	398
PCT	37.2	35.2	17.1	7.5	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0

PERIOD: (PRIMARY) 1949-1971  
(OVER-ALL) 1870-1971

FEBRUARY

AREA 0022 S. E. PERSIAN GULF  
20.1N 54.6E

TABLE 1

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	RAIN SHR	DRY SHR	PRECIPITATION TYPE				HAIL PCPN	PCT FREQ PCPN AT DB TIME	TOTAL PCPN DBS	THOR LTNG	OTHER WEATHER PHENOMENA					TOTAL OBS
			FRZG PCPN	SNOW PCPN	OTHER PCPN	FRZG PCPN					FOG NO	SMOKE HAZE	DUST BLWG	NO DUST	SIG WEA	
N	2	0	0	0	0	0	0	3	2	2	1	1	0	0	7.2	47
NE	1.8	0	0	0	0	0	0	8	5	4	0	2	2	0	10.2	70
E	1.8	0	0	0	0	0	0	1.2	7	3	0	3	1	0	1.0	58
SE	0	0	0	0	0	0	0	2	1	0	0	2	0	0	1.8	13
S	0	0	0	0	0	0	0	2	0	0	0	1	0	0	0.3	15
SW	2.2	0	0	0	0	0	0	4	2	0	0	3	0	0	10.0	62
W	2.5	0	0	0	0	0	0	4	3	0	2	6	2	0	24.6	167
WN	0	0	0	0	0	0	0	3	0	2	1	4	0	0	14.5	194
VAR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CALM	0	0	0	0	0	0	0	0	0	0	2	12	0	0	10.9	71
TOT DBS	13	3	0	0	0	0	0	0	22	6	3	18	3	0	348	398
TOT PCT	2.5	0.8	0	0	0	0	0	3.7	3.7	1.0	0.5	3.0	0.5	0	91.6	100.0

TABLE 2

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR LOCAL	RAIN SHR	DRY SHR	PRECIPITATION TYPE				HAIL PCPN	PCT FREQ PCPN AT DB TIME	TOTAL PCPN DBS	THOR LTNG	OTHER WEATHER PHENOMENA					TOTAL OBS
			FRZG PCPN	SNOW PCPN	OTHER PCPN	FRZG PCPN					FOG NO	SMOKE HAZE	DUST BLWG	NO DUST	SIG WEA	
0000Z	0	1.3	0	0	0	0	0	0.7	7	2.7	0	4.7	0	0	89.3	194
0600Z	0	1.3	0	0	0	0	0	1.0	3	6	1.3	4.5	0	0	91.7	127
1200Z	1.5	1.0	0	0	0	0	0	2.5	5	0	0	2.5	1.0	0	94.7	198
1800Z	5.0	0	0	0	0	0	0	5.0	7	0	0	0	0	0	92.3	120
TOT	15	3	0	0	0	0	0	9.9	22	6	3	18	3	0	373	624
PCT	2.4	0.8	0	0	0	0	0	3.9	3.9	1.0	0.5	3.0	0.5	0	91.8	100.0

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PERIOD: (PRIMARY) 1949-1971  
(OVER-ALL) 1870-1971

AREA 0022 S. E. PERSIAN GULF  
26.1N 54.5E

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						TOTAL DBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+				00	03	06	09	12	15	18	21
N	1.0	4.0	2.2	.1	.0	.0	53	7.3	9.4	8.3	6.5	8.5	2.9	8.1	8.0	2.2	15.0
NE	1.4	6.3	3.7	.0	.0	.0	82	11.4	8.8	7.9	8.7	17.7	2.9	14.0	10.7	7.7	5.0
E	1.1	5.3	4.0	.1	.0	.0	83	11.6	9.1	9.1	13.2	16.5	16.2	19.6	19.6	4.3	18.3
SE	.4	1.6	.5	.0	.0	.0	19	2.7	7.4	2.1	3.2	4.2	4.4	3.4	1.0	1.7	1.7
S	.7	1.4	.3	.3	.0	.0	21	2.9	8.5	1.0	10.9	4.3	10.3	2.5	3.6	1.4	3.3
SW	1.1	5.4	2.8	.1	.0	.0	71	9.8	9.1	10.5	15.2	6.5	13.2	13.5	3.6	6.1	10.0
W	2.4	12.5	9.9	2.9	.1	.0	194	28.8	11.7	26.6	16.3	18.2	25.0	27.5	33.9	34.5	23.3
NW	1.7	6.5	6.4	1.5	.0	.0	116	16.1	11.6	24.1	20.7	11.2	16.2	10.0	15.2	20.3	23.3
VAR	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALC	11.3	323	210	56	1	0	82	11.3	.0	10.3	4.5	16.0	8.8	11.3	3.6	13.5	.0
TOT DBS	154	44.0	29.6	5.0	.1	.0	724	100.0	9.1	145	23	150	34	253	28	111	30
TOT PCT	21.3									100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)				41+	TOTAL DBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-6	7-16	17-27	28-40					00	03	06	09	12	15	18	21
N	2.6	3.8	.9	.1	.0	53	7.3	9.4	8.0	8.0	7.5	8.1	5.0			
NE	4.2	6.4	.8	.0	.0	82	11.4	8.8	10.0	10.0	14.9	13.6	7.1			
E	4.8	5.9	.9	.0	.0	83	11.6	9.1	10.0	10.0	14.8	10.8	10.3			
SE	1.3	1.4	.0	.0	.0	19	2.7	7.4	2.1	2.1	4.2	3.2	1.5			
S	1.8	.8	.2	.1	.0	21	2.9	8.5	2.4	2.4	4.6	2.6	1.8			
SW	3.3	5.8	.7	.0	.0	71	9.8	9.1	11.2	11.2	7.7	12.3	6.9			
W	6.7	13.7	6.1	.4	.0	194	28.8	11.7	25.1	25.1	19.4	28.2	36.2			
NW	4.8	7.1	3.9	.2	.0	116	16.1	11.6	23.7	23.7	12.1	10.6	21.5			
VAR	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0			
CALC	11.3	325	98	6	0	82	11.3	.0	9.5	14.7	10.4	10.4	10.6			
TOT DBS	295	44.9	12.5	.8	.0	724	100.0	9.1	168	184	231	141	141			
TOT PCT	40.7				.0				100.0	100.0	100.0	100.0	100.0			

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PERIOD: (PRIMARY) 1949-1971  
(COVER-ALL) 1870-1971

ARPA 0022 S. E. PERSIAN GULF  
26.1N 54.6E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS)					PCT FREQ	TOTAL OBS
		1-3	4-10	11-21	22-33	34-47		
0000	9.5	7.7	54.0	34.5	4.2	.0	9.6	100.0
0609	14.7	10.9	45.1	25.5	3.8	.0	8.2	100.0
1215	10.4	11.7	45.0	25.5	7.4	.0	9.1	100.0
1821	10.6	8.5	44.0	32.6	3.5	.7	9.6	100.0
TOT	82	72	323	210	36	1	9.1	724
PCT	11.3	9.9	44.6	29.0	5.0	.1	100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)  
BY WIND DIRECTION

WIND DIR	PCT FREQ						TOTAL OBS
	0-2	3-4	5-7	8-6	0950	MEAN CLOUD COVER	
N	4.2	1.4	.6	1.8	.0	3.2	42
NE	4.1	1.2	3.8	2.5	.0	4.2	63
E	3.7	2.2	2.1	2.0	.0	3.8	54
SE	.8	.9	.4	.4	.0	3.1	12
S	.8	.6	.5	.3	.0	3.5	11
SW	6.2	1.6	1.4	.1	.0	2.0	50
W	21.9	2.8	2.3	1.4	.0	1.4	153
NW	11.9	1.6	1.8	1.0	.0	1.7	88
VAR	.0	.0	.0	.0	.0	.0	0
CALM	9.4	1.1	.6	.9	.0	1.4	65
TOT OBS	341	73	54	54	1	2.3	541
TOT PCT	63.0	13.5	13.5	10.0	100.0		100.0

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT/NH >4/8)  
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WIND DIR	PCT FREQ												TOTAL OBS
	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8	ANY HGT	
N	.0	.0	.2	.4	.2	.2	.0	.0	.0	.5	6.5	.0	42
NE	.0	.0	.0	.6	1.1	1.1	.0	.2	.2	.3	8.3	.0	63
E	.0	.0	.2	.4	.5	.7	.2	.4	.0	.2	7.4	.0	54
SE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.2	.0	12
S	.0	.0	.0	.2	.0	.1	.0	.0	.0	.0	1.8	.0	11
SW	.0	.0	.0	.0	.2	.5	.1	.0	.0	.0	8.6	.0	50
W	.0	.0	.0	.2	.7	.1	.5	.0	.2	.4	26.3	.0	153
NW	.0	.0	.0	.0	.6	.6	.2	.0	.0	.6	14.4	.0	88
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
CALM	.2	.0	.0	.0	.0	.2	.2	.0	.2	.0	11.2	.0	65
TOT OBS	1	0	2	9	18	19	6	3	3	10	470	.0	541
TOT PCT	.2	.0	.4	1.7	3.3	3.5	1.1	.6	.6	1.8	86.9	.0	100.0



PERIOD: (PRIMARY) 1949-1971  
(OVER-ALL) 1970-1971

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AREA 0022 S. E. PERSIAN GULF  
26.1N 54.6E

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE  
OF CEILING HEIGHT (NH > 4/8) AND VSBY (NM)

CEILING (FEET)	OR >10	OR >5	OR >2	OR >1	OR >1/2	OR >1/4	OR >50YD	OR >0
OR >500	2.1	2.3	2.3	2.5	2.5	2.5	2.5	2.5
OR >5000	2.7	2.9	2.9	3.0	3.0	3.0	3.0	3.0
OR >3500	3.8	3.9	3.9	4.1	4.1	4.1	4.1	4.1
OR >2000	6.4	7.7	7.7	7.9	7.9	7.9	7.9	7.9
OR >1000	8.8	10.7	10.9	11.1	11.1	11.1	11.1	11.1
OR >600	10.0	12.2	12.5	12.7	12.7	12.7	12.7	12.7
OR >300	10.2	12.5	12.9	13.1	13.1	13.1	13.1	13.1
OR >150	10.2	12.5	12.9	13.1	13.1	13.1	13.1	13.1
OR >0	10.2	12.5	12.9	13.1	13.1	13.1	13.1	13.1
TOTAL	57	70	72	73	73	73	74	74

TOTAL NUMBER OF OBS: 559

PCT FREQ NH < 5/8: 86.8

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	9	TOTAL OBS
53.9	14.8	7.9	6.9	3.1	2.8	2.0	2.8	5.6	.2	6.8	

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PERIOD: (PRIMARY) 1949-1971  
(OVER-ALL) 1870-1971

TABLE 8  
PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF  
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
NO PCP	.1	.0	.2	.0	.0	.0	.2	.3	.0	.0	.7	
TOT %	.1	.0	.2	.0	.0	.0	.2	.3	.0	.0	.7	
PCP	.0	.0	.0	.0	.2	.1	.1	.3	.0	.0	.7	
NO PCP	.2	.3	.1	.0	.0	.1	.3	.1	.0	.2	1.7	
TOT %	.2	.3	.1	.0	.2	.2	.8	.5	.0	.2	2.3	
PCP	.2	.2	.3	.0	.0	.0	.0	.0	.0	.0	.7	
NO PCP	.3	1.8	.9	.1	.8	1.3	3.7	2.1	.0	1.3	12.2	
TOT %	.5	1.9	1.3	.1	.8	1.3	3.7	2.1	.0	1.3	12.9	
PCP	.2	.7	.8	.2	.0	.#	.3	.2	.0	.0	2.3	
NO PCP	7.0	8.9	7.4	1.9	1.7	8.9	22.7	12.8	.0	10.2	81.5	
TOT %	7.2	9.6	8.3	2.1	1.7	8.9	23.0	13.0	.0	10.2	83.9	
TOT OBS	7.9	11.7	9.8	2.2	2.6	10.4	27.7	15.8	.0	11.9	100.0	596

PERIOD: (PRIMARY) 1949-1971  
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AREA 0022 S. E. PERSIAN GULF  
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TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED  
WITH VARYING VALUES OF VISIBILITY

VSRY (RM)	SPO KTS	N	RE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL UBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.1
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.1
1/2<1	0-3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.1	.0	.1	.0	.0	.0	.0	.2	.0	.0	.4	.4
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1	.1
	TOT %	.1	.0	.1	.0	.0	.0	.1	.2	.0	.0	.5	.5
2<5	0-3	.0	.0	.0	.0	.0	.0	.1	.0	.0	.3	.4	.4
	4-10	.1	.0	.0	.0	.0	.0	.3	.2	.0	.0	.6	.6
	11-21	.1	.2	.1	.0	.0	.4	.1	.2	.0	.0	1.0	1.0
	22+	.0	.0	.0	.1	.1	.1	.2	.0	.0	.0	.4	.4
	TOT %	.2	.2	.1	.1	.1	.4	.7	.4	.0	.3	2.5	2.5
5<10	0-3	.0	.4	.2	*	.0	.4	.0	.1	.0	1.4	2.6	2.6
	4-10	.1	.8	.7	*	.5	.6	1.9	.6	.0	.0	5.2	5.2
	11-21	.4	.8	1.1	.2	.1	.3	1.2	.9	.0	.0	5.1	5.1
	22+	.0	.0	.0	.3	.1	.0	.5	.6	.0	.0	1.3	1.3
	TOT %	.5	2.0	1.9	.3	.7	1.4	3.7	2.3	.0	1.4	14.2	14.2
10+	0-3	.8	1.1	1.0	.4	.4	.8	2.2	1.3	.0	9.6	17.5	17.5
	4-10	3.8	5.4	5.2	1.6	1.2	5.4	10.6	5.4	.0	.0	38.6	38.6
	11-21	1.9	2.7	2.6	.5	.3	2.3	7.6	5.4	.0	.0	23.4	23.4
	22+	.1	.0	.1	.0	.0	*	1.9	.7	.0	.0	2.9	2.9
	TOT %	6.5	9.2	9.2	2.5	1.9	8.5	22.3	12.2	.0	9.6	82.5	82.5
TOT UBS		7.5	11.4	11.3	2.7	2.7	10.3	26.6	15.7	.0	11.4	100.0	691
TOT PCT													

PERIOD: (PRIMARY) 1949-1971  
(OVER-ALL) 1870-1971

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TABLE 10  
PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH > 4/8) AND  
OCCURRENCE OF NH < 5/8 BY HOUR

HOUR (GMT)	000	050	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	TOTAL	NH < 5/8 ANY HGT	TOTAL OBS
00003	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
06009	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12015	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
18021	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
PCT	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0

TABLE 11

PERCENT FREQUENCY VS8Y (NM) BY HOUR

HOUR (GMT)	< 1/2	1/2 < 1	1 < 2	2 < 3	3 < 4	4 < 5	5 < 6	6 < 7	7 < 8	8 < 9	9 < 10	10 < 11	11 < 12	TOTAL OBS
00003	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
06009	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12015	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
18021	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
PCT	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VS8Y (NM) AND/OR  
CEILING HGT (FEET, NH > 4/8) BY HOUR

HOUR (GMT)	< 150 < 50YD	< 600 < 1	< 1000 < 5	< 1000+ AND 5+	NH < 5/8 AND 5+	TOTAL OBS
00003	.0	.0	.0	.0	.0	.0
06009	.0	.0	.0	.0	.0	.0
12015	.0	.0	.0	.0	.0	.0
18021	.0	.0	.0	.0	.0	.0
TOT	.0	.0	.0	.0	.0	.0
PCT	.0	.0	.0	.0	.0	.0

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PERIOD: (PRIMARY) 1949-1971  
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AREA 0022 S. E. PERSIAN GULF  
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TABLE 13

TEMP F	PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP										TOTAL OBS	PCT FREQ
	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100				
80/84	.0	.0	.0	.2	.2	.2	.2	.0			4	.6
75/79	.0	.0	.0	.4	1.2	1.6	2.4	1.0	.2		34	6.8
70/74	.0	.0	.6	1.0	5.6	10.8	9.8	11.8	4.8		222	44.2
65/69	.0	.0	.0	1.6	4.6	12.7	13.1	8.0	3.2		217	43.2
60/64	.0	.0	.0	.2	.6	1.2	1.8	.4	.8		25	5.0
TOTAL	.0	.3	.3	17	31	133	137	108	45		502	100.0
PCT	.0	.6	3.4	12.2	26.5	27.3	21.1	9.0				

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP									
N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.2	.0	.0	.0	.3	*	.0	.2
.3	.4	1.5	.5	.0	1.1	.8	1.0	.0	1.0
2.4	6.3	4.1	1.1	1.8	5.4	13.2	4.0	.0	5.8
3.6	4.7	3.9	.5	.7	4.3	12.8	8.8	.0	3.6
.6	.6	.2	.0	.0	*	1.3	1.7	.0	.4
35	61	50	10	12	54	143	78	0	55
7.0	12.3	10.0	2.1	2.5	10.9	28.5	15.7	.0	11.0

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR									
HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
0000	77	76	73	69	63	60	60	68.5	181
0600	82	80	76	70	65	60	60	70.3	181
1200	82	80	77	72	65	64	63	71.3	227
1800	80	79	74	70	64	61	60	69.3	147
TOT	82	79	74	70	64	62	60	70.0	736

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR								
HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
0000	.0	6.8	29.3	28.0	21.0	10.6	74	132
0600	.0	14.1	28.1	25.2	23.7	8.9	72	135
1200	.0	25.3	25.9	21.0	20.4	7.4	70	162
1800	.0	15.8	18.9	41.1	14.7	9.5	73	95
TOT	0	84	137	144	112	47	72	524

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AREA 0022 S. E. PERSIAN GULF  
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TABLE 17  
PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)  
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	57	61	65	69	73	77	81	TOT	W	W FOG	HQ FOG
9/10	.0	.0	.0	.0	.0	.0	.2	4	.0	.0	.8
7/8	.0	.0	.0	.0	.6	.6	.8	7	.0	.0	1.4
6	.0	.0	.0	.2	.6	.6	.2	8	.0	.0	1.6
5	.0	.0	.0	.0	.6	.6	.0	6	.0	.0	1.2
4	.0	.0	.0	.0	.6	.4	.0	5	.0	.0	1.0
3	.0	.0	.0	.6	1.4	.6	.0	13	.0	.0	2.5
2	.0	.0	.0	2.3	2.7	.2	.0	27	.2	.0	5.1
1	.0	.0	.0	3.7	2.9	.0	.0	35	.0	.0	6.8
0	.0	.0	1.2	5.1	3.7	.0	.0	51	.0	.0	10.0
-1	.0	.0	2.1	7.6	2.3	.2	.0	63	.0	.0	12.3
-2	.0	.0	3.9	5.3	1.4	.2	.0	55	.2	.0	10.5
-3	.0	.0	3.1	7.6	.8	.0	.0	59	.0	.0	11.5
-4	.0	.2	4.1	5.7	.4	.0	.0	53	.0	.0	10.4
-5	.0	1.0	5.1	2.3	.0	.0	.0	43	.2	.0	8.2
-6	.0	.0	3.9	1.4	.0	.0	.0	27	.0	.0	5.3
-7/-8	.4	1.0	4.1	1.6	.0	.0	.0	35	.0	.0	6.8
-9/-10	.4	1.6	1.2	.0	.0	.0	.0	16	.0	.0	3.1
-11/-13	.2	.8	.0	.0	.0	.0	.0	5	.0	.0	1.0
TOTAL	4	23	147	222	92	22	2	512	.3	.6	502
PCT	.8	4.5	28.7	43.4	18.0	4.3	.4	100.0	.6	.6	99.4

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(OVER-ALL) 1963-1971

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TABLE 18

AREA 0022 S. E. PERSIAN GULF  
26.1N 54.0E

PCT FREQ CF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.8	2.3	.0	.0	.0	.0	3.0	.8	.8	.0	.0	.0	.0	1.5
1-2	.0	1.1	2.1	.0	.0	.0	3.2	.8	2.1	1.7	.0	.0	.0	4.5
3-4	.0	2.3	.0	.0	.0	.0	2.3	.0	.2	2.3	.0	.0	.0	2.4
5-6	.0	.0	1.1	.0	.0	.0	1.1	.0	1.5	.8	.0	.0	.0	2.3
7	.0	.0	.6	.0	.0	.0	.6	.0	.0	.2	.0	.0	.0	.2
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.8	5.6	3.5	.0	.0	.0	10.2	1.5	4.5	4.9	.0	.0	.0	10.9

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.5	.0	.0	.0	.0	1.5	.8	.2	.0	.0	.0	.0	.9
1-2	.0	4.1	.8	.0	.0	.0	4.9	.0	.0	.2	.0	.0	.0	.2
3-4	.0	.6	.0	.0	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	1.5	.0	.0	.0	1.5	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.6	.0	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	6.2	2.8	.0	.0	.0	9.0	.8	.2	.2	.0	.0	.0	1.1

PERIOD: (PRIMARY)  
(OVER-ALL) 1963-1971

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TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S										SW									
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+
<1	.0	.0	.0	.0	.0	.0	.0	.2	.2	.0	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0
1-2	.0	2.1	.0	.0	.0	.0	2.6	.0	3.9	.2	.0	.0	.0	4.2	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	1.9	.0	.0	.0	.0	3.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	3.2	.0	.0	.0	.0	3.8	.2	6.0	1.3	.2	.0	.0	7.7	.0	.0	.0	.0	.0	.0

HGT	W										NW									
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	10.9	3.9	.0	.0	.0	15.6	.0	4.3	1.9	.0	.0	.0	2.2	.0	.0	.0	.0	.0	.0
3-4	.0	3.9	2.6	.0	.0	.0	7.3	.0	1.1	4.3	.0	.0	.0	6.4	.0	.0	.0	.0	.0	.0
5-6	.0	1.3	3.4	.0	.0	.0	5.7	.0	1.7	3.8	.0	.0	.0	5.5	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	1.9	.0	.0	.2	.0	.0	.0	1.1	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	3.6	19.4	10.7	2.8	.6	.0	37.0	.8	8.3	10.3	.8	.2	.0	20.3	.0	.0	.0	.0	.0	.0



AREA 0022 S. E. PERSIAN GULF  
26.1N 54.6E

FEBRUARY

PERIOD: (PRIMARY)  
(COVER-ALL) 1963-1971

TABLE 18 (CONT)

HGT	WIND SPEED (KTS) VS SEA HEIGHT (FT)						TUT DBS
	0-3	4-10	11-21	22-33	34-47	48+	
<1	21.1	8.1	.0	.0	.0	.0	23.2
1-2	1.2	24.2	9.3	.0	.0	.0	34.8
3-4	.6	8.7	8.7	.6	.0	.0	18.6
5-6	.0	3.7	8.7	.6	.0	.0	13.0
7	.0	.0	1.9	1.2	.6	.0	3.7
8-9	.0	.0	.0	.6	.0	.0	.6
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-21	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-31	.0	.0	.0	.0	.0	.0	.0
33-43	.0	.0	.0	.0	.0	.0	.0
41-43	.0	.0	.0	.0	.0	.0	.0
49-63	.0	.0	.0	.0	.0	.0	.0
61-73	.0	.0	.0	.0	.0	.0	.0
71-85	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	23.0	44.7	28.6	3.1	.6	.0	100.0
							161

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)																			87+ TOTAL	MEAN HGT
	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86			
<6	9.3	26.9	15.0	4.5	1.7	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	246	2
6-7	.0	.2	3.1	3.8	1.7	1.4	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	44	3
8-9	.0	.0	.0	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	4
10-11	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	6
12-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	3
15	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	6
INDET	21.4	3.8	1.7	1.0	.3	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	120	1
TOTAL	129	130	92	41	18	9	1	0	0	0	0	0	0	0	0	0	0	0	0	420	2
PCT	30.7	31.0	21.9	9.8	4.3	2.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1948-1971  
(OVER-ALL) 1870-1971

MARCH

APEA 0022 S. E. PERSIAN GULF  
26.1N 54.7E

TABLE 1

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	RAIN	RAIN SHWR	ORZL	PRECIPITATION TYPE			HAIL	PCT FREQ PCPN AT DB TIME	TOTAL PCPN OBS	THOR LTNG	OTHER WEATHER PHENOMENA							TOTAL OBS
				FRZG PCPN	SNOW PCPN	OTHER PCPN					FOG PCPN	SMOKE PCPN	HAZE PCPN	BLWG PCPN	DUST PCPN	OUST PCPN	SIG PCPN	
N	.5	.0	.2	.0	.0	.0	.0	.7	4	.0	.1	.3	.1	.1	.1	.3	.8	33
NE	.3	.2	.3	.0	.0	.0	.0	.8	5	.2	.2	.8	.2	.2	.2	.5	.9	53
E	.1	.0	.0	.0	.0	.0	.0	.1	0	.1	.1	.9	.0	.0	.0	.2	.8	47
SE	.2	.0	.0	.0	.0	.0	.0	.2	1	.0	.2	.0	.0	.0	.0	.0	.0	25
S	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.5	.0	.0	.0	.0	.0	28
SW	.1	.0	.0	.0	.0	.0	.0	.1	0	.0	.2	1.3	.2	.2	.2	.2	.2	120
W	.2	.0	.0	.0	.0	.0	.0	.3	2	.2	.1	1.5	.2	.6	.6	.2	.2	202
NW	.2	.2	.2	.0	.0	.0	.0	.5	3	.0	.1	.3	.2	.2	.2	.2	.2	72
VAR	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	0
CALM	.2	.0	.5	.0	.0	.0	.0	.6	4	.0	.0	1.2	.2	.2	.2	.2	.2	82
TOT OBS	12	2	7	0	0	0	0	3.2	21	3	5	46	11	11	11	578	665	
TOT PCT	1.8	.3	1.1	.0	.0	.0	.0	3.2		.5	.9	6.9	1.7	1.7	1.7	86.9	100.0	

TABLE 2

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	RAIN	RAIN SHWR	ORZL	PRECIPITATION TYPE			HAIL	PCT FREQ PCPN AT DB TIME	TOTAL PCPN OBS	THOR LTNG	OTHER WEATHER PHENOMENA							TOTAL OBS
				FRZG PCPN	SNOW PCPN	OTHER PCPN					FOG PCPN	SMOKE PCPN	HAZE PCPN	BLWG PCPN	DUST PCPN	OUST PCPN	SIG PCPN	
0000Z	2.6	1.0	.5	.0	.0	.0	.0	4.2	8	1.6	.5	6.3	.5	1.0	86.4			191
0600Z	2.2	.0	1.7	.0	.0	.0	.0	3.9	7	.0	.6	8.3	.6	2.2	85.0			180
1200Z	1.5	.0	1.0	.0	.0	.0	.0	2.6	5	.0	1.5	5.6	.5	2.1	88.2			195
1800Z	1.7	.0	1.4	.0	.0	.0	.0	2.1	3	.0	.7	6.3	.7	.7	89.6			144
TOT	13	2	8	0	0	0	0	2.1	23	4	6	47	6	11	619			710
PCT	1.8	.3	1.1	.0	.0	.0	.0	3.2		.6	.8	6.6	.8	1.5	87.2			100.0

PERIOD: (PRIMARY) 1948-1971  
(OVER-ALL) 1870-1971

MARCH

AREA 0022 S. E. PERSIAN GULF  
26.1N 54.7E

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)										HOUR (GMT)				
	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD		00	03	06	09	12
N	1.0	2.3	1.7	.4	.0	.0	43	5.3	9.4		4.9	14.8	3.8	2.2	4.1
NE	1.3	5.1	1.9	.2	.0	.0	69	8.5	8.3		9.6	14.8	12.0	6.5	6.9
E	1.1	4.5	1.1	.1	.0	.0	55	6.3	7.7		3.6	5.6	11.1	9.4	8.7
SE	1.0	1.6	1.0	.0	.0	.0	30	3.7	7.1		3.0	.0	5.3	2.8	4.5
S	1.9	3.4	1.3	.0	.0	.0	53	6.6	6.6		4.9	8.3	6.9	9.4	9.9
SW	2.1	9.6	5.1	.2	.0	.0	138	17.0	9.1		11.1	6.5	16.7	32.1	21.2
W	2.6	13.4	10.5	2.3	.0	.0	234	28.9	11.5		30.2	11.1	24.5	19.8	29.9
NW	1.2	6.7	2.8	.6	.0	.0	91	11.3	9.6		13.7	16.7	8.9	5.7	7.2
VAR	.0	.0	.0	.0	.0	.0	0	.0	.0		.0	.0	.0	.0	.0
CALM	11.8	379	206	31	1	0	96	11.8	.0		19.1	22.2	10.6	9.4	7.6
TOT OBS	194	45.7	25.4	3.6	.1	.0	811	100.0	8.4		183	27	100	53	184
TOT PCT	23.9	45.7	25.4	3.6	.1	.0	100.0				100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)										HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD			00	03	06	09	12
N	2.4	2.1	.7	.1	.0	43	5.3	9.4			6.2	6.2	3.5	4.0	8.4
NE	3.9	3.8	.8	.0	.0	69	8.5	8.3			10.2	10.2	11.2	6.7	5.4
E	3.3	3.0	.5	.0	.0	55	6.8	7.7			3.8	3.8	10.7	7.7	4.2
SE	2.2	1.4	.2	.0	.0	30	3.7	7.1			2.6	2.6	4.8	4.1	3.3
S	4.6	1.6	.4	.0	.0	53	6.6	6.6			5.4	5.4	7.5	9.4	3.1
SW	6.7	8.9	1.4	.1	.0	138	17.0	9.1			10.5	10.5	20.5	22.7	12.9
W	7.1	13.0	4.7	1.0	.0	234	28.9	11.5			27.7	23.4	20.2	30.2	35.7
NW	4.2	5.4	1.6	.1	.0	91	11.3	9.6			14.0	14.0	8.1	7.4	17.5
VAR	.0	.0	.0	.0	.0	0	.0	.0			.0	.0	.0	.0	.0
CALM	11.8	342	.4	1.0	.0	96	11.8	.0			19.1	10.3	7.9	7.9	9.3
TOT OBS	375	42.1	10.4	1.2	.0	811	100.0	8.4			210	213	227	227	161
TOT PCT	46.2	42.1	10.4	1.2	.0	100.0					100.0	100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1948-1971  
(OVER-ALL) 1870-1971

MARCH

AREA 0022 5. E. PERSIAN GULF  
26.1N 54.7E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				48+	MEAN	PCT FREQ	TOTAL DBS
				11-21	22-33	34-47					
0000	19.1	9.0	38.6	27.1	5.2	.5	.0	8.3	100.0	210	
0600	10.3	12.7	53.5	21.6	1.9	.0	.0	7.7	100.0	213	
1200	7.5	14.5	46.3	26.4	4.8	.0	.0	8.8	100.0	227	
1800	9.3	11.8	49.1	26.7	3.1	.0	.0	8.9	100.0	161	
TOT	96	98	379	206	31	1	0	8.4		811	
PCT	11.8	12.1	46.7	25.4	3.8	.1	.0	100.0			

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)  
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8-10	TOTAL DBS	MEAN CLOUD COVER	
						DBS	PERCENT
N	2.2	.5	.5	1.0	24	3.2	
NE	3.4	.7	1.8	1.5	42	3.0	
E	4.0	.7	1.3	.7	38	2.6	
SE	2.1	.1	.7	.6	20	2.9	
S	3.8	.5	1.6	.4	36	2.8	
SW	10.3	3.1	2.9	.5	96	2.2	
W	22.7	3.0	4.2	1.4	179	1.7	
NW	7.7	.6	2.3	1.1	66	2.3	
VAR	.0	.0	.0	.0	0	.0	
CALM	7.8	1.7	1.6	1.0	70	2.1	
TOT DBS	367	62	197	48	574	2.3	
TOT PCT	63.9	10.8	16.9	8.4	100.0		

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT) NH >4/8  
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WIND DIR	000	149	150	299	300	599	600	999	1000	2000	3499	3500	4999	5000	6499	7999	8000+	NH <5/8		TOTAL DBS
																		ANY	HGT	
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	3.0	24
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	5.3	42
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.1	32
SE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	2.8	20
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	5.8	36
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	16.5	96
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	28.6	179
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	10.2	66
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	10.6	70
TOT DBS	0	1	0	2	0	0	0	0	5	11	10	3	2	5	9	11	14	14	510	574
TOT PCT	.0	.2	.0	.0	.0	.0	.0	.0	.9	1.9	1.7	.5	1.6	1.9	2.4	88.9	100.0			

PERIOD: (PRIMARY) 1948-1971  
(OVER-ALL) 1870-1971

MARCH

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TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE  
OF CEILING HEIGHT (NH > 4/8) AND VSBY (NH)

CEILING (FEET)	VSBY (NH)							
	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >50Y0	= OR >0
= OR >6500	3.0	4.1	4.1	4.1	4.1	4.1	4.1	4.1
= OR >5000	4.4	5.7	5.7	5.7	5.7	5.7	5.7	5.7
= OR >3500	5.1	6.6	6.6	6.6	6.6	6.6	6.6	6.6
= OR >2000	6.4	8.2	8.2	8.2	8.2	8.2	8.2	8.2
= OR >1000	7.4	9.8	10.0	10.0	10.0	10.0	10.0	10.0
= OR >600	7.9	10.7	10.8	10.8	10.8	10.8	10.8	10.8
= OR >300	7.9	10.7	10.8	10.8	10.8	10.8	10.8	10.8
= OR >150	7.9	10.8	11.0	11.0	11.0	11.0	11.0	11.0
= OR > 0	7.9	10.8	11.0	11.0	11.0	11.0	11.0	11.0
= TOTAL	48	66	67	67	67	67	67	67

TOTAL NUMBER OF OBS: 410

PCT FREQ NH < 5/8: 89.0

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	OBSCD	TOTAL
SR. R	12.6	8.4	4.6	4.6	3.2	2.4	2.5	3.1	4.4	.0	680

PERIOD: (PRIMARY) 1968-1971  
(OVER-ALL) 1870-1971

MARCH

AREA 0022 S. E. PERSIAN GULF  
26.1N 54.7E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OF NON-OCCURRENCE OF  
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSRY (NM)	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP .0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP .0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.2
	TOT % .0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.2
1/2<1	PCP .0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP .0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2
	TOT % .0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2
1<2	PCP .0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP .0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.2
	TOT % .0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.2
2<5	PCP .0	.0	.0	.0	.0	.1	.1	.0	.0	.0	.0	.2
	NO PCP .3	.0	.0	.0	.0	.6	1.4	.0	.0	.0	.3	2.6
	TOT % .3	.0	.0	.0	.0	.7	1.4	.0	.0	.0	.3	2.7
5<10	PCP .3	.3	.0	.2	.0	.0	.0	.2	.0	.0	.0	.9
	NO PCP .9	1.5	.8	.8	.9	2.5	5.0	2.4	.0	2.3	17.0	26.6
	TOT % 1.2	1.8	.8	.9	.9	2.5	5.0	2.6	.0	2.3	17.9	27.5
10+	PCP .4	.5	.1	.0	.0	.0	.2	.4	.0	.5	.2	2.0
	NO PCP 3.2	5.6	6.2	2.9	4.9	13.4	23.6	7.9	.0	9.2	77.0	82.2
	TOT % 3.5	6.1	6.3	2.9	4.9	13.4	23.9	8.3	.0	9.7	78.9	84.4
TOT OBS TOT PCT	5.0	8.1	7.1	3.9	3.7	16.6	30.5	10.9	.0	12.2	100.0	664

PERIOD: (PRIMARY) 1948-1971  
(OVER-ALL) 1870-1971

MARCH

AREA 0022 S. E. PERSIAN GULF  
26.1N 54.7E

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED  
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPO KTS	N	NE	E	SE	S	SW	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.1	.1	.0	.0	.0	.0	.0	.0	.1	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.1	.1	.0	.0	.0	.0	.0	.0	.1	.0
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.1	.0	.0	.0	.0	.0	.0	.0	.1	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.1	.0	.0	.0	.0	.0	.0	.0	.1	.0
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
2<5	0-3	.1	.0	.0	.0	.0	.3	.2	.0	.4	1.0	.0
	4-10	.1	.0	.0	.0	.0	.2	.5	.1	.0	.9	.0
	11-21	.0	.0	.0	.0	.0	.2	.6	.0	.0	.8	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.2	.0	.0	.0	.0	.7	1.3	.1	.4	2.7	.0
5<10	0-3	.1	.1	.1	.0	.3	.3	.1	.2	2.1	3.4	.0
	4-10	.4	.3	.5	.4	.4	1.3	1.6	1.0	.0	6.5	.0
	11-21	.3	.9	.3	.4	.1	.5	2.1	1.1	.0	5.8	.0
	22+	.2	.0	.0	.0	.0	.0	.6	.1	.0	.9	.0
	TOT %	1.0	1.9	.9	.8	.9	2.2	4.5	2.4	.0	16.6	.0
10+	0-3	.5	1.1	1.1	.9	1.5	1.4	2.0	.8	9.4	18.7	.0
	4-10	1.6	4.1	4.1	1.4	2.7	8.3	11.7	5.8	.0	39.7	.0
	11-21	1.2	.7	.7	.0	1.3	4.5	8.2	1.7	.0	18.8	.0
	22+	.3	.2	.1	.0	.0	.0	1.8	.4	.0	3.0	.0
	TOT %	3.6	6.1	6.0	2.9	5.5	14.2	32.8	8.7	.0	80.2	.0
TOT OBS												764
TOT PCT		4.0	8.1	6.9	3.7	6.3	17.3	29.6	11.2	.0	100.0	

MARCH

PERIOD: (PRIMARY) 1943-1971  
(OVER-ALL) 1870-1971

AREA 0022 S. E. PERSIAN GULF  
26.1N 54.7E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH > 4/8) AND  
OCCURRENCE OF NH < 5/8 BY HOUR

HOUR (GMT)	000 149	130 239	300 593	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL ANY HGT	NH < 5/8 ANY HGT	TOTAL OBS
00003	.0	.0	.0	1.8	2.9	1.8	.6	.0	1.2	1.8	10.0	92.0	170
06009	.0	.6	.0	.6	2.3	2.3	1.1	2.3	2.3	2.9	14.6	85.6	174
12015	.0	.0	.0	.0	.5	1.1	.5	2.7	2.2	2.2	9.3	90.7	183
18021	.0	.0	.0	.7	.7	.7	.7	.7	.7	1.5	5.9	94.1	136
TOT PCT	0 .2	1 .2	2 .0	5 .8	11 1.7	10 1.5	5 .8	10 1.3	11 1.7	14 2.1	67 10.1	596 89.9	663 100.0

TABLE 11

PERCENT FREQUENCY VS8Y (NH) BY HOUR

HOUR (GMT)	<1/2 1/201	1/2 1/22	2/3 2/33	5/10 5/10	10+ 10+	TOTAL OBS
00003	.0	.0	1.3	13.6	85.1	134
06009	.0	.0	3.1	19.8	77.2	162
12015	.0	.0	1.9	13.5	84.7	163
18021	.0	.0	3.1	11.5	85.5	131
TOT PCT	0 .0	0 .0	14 2.3	90 14.8	506 82.0	610 100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VS8Y (NH) AND/OR  
CEILING HGT (FEET, NH > 4/8) BY HOUR

HOUR (GMT)	<150 CEILING	<600 CEILING	<1000 CEILING	1000+ AND 5+	NH < 5/8 AND 5+	TOTAL OBS
00003	.0	.0	3.2	9.1	87.7	154
06009	.0	.6	4.3	13.6	82.1	162
12015	.0	.0	1.8	10.4	87.7	163
18021	.0	.0	3.8	5.3	90.8	131
TOT PCT	0 .0	1 .2	20 3.3	60 9.8	530 86.9	610 100.0



MARCH

PERIOD: (PRIMARY) 1949-1971  
(OVER-ALL) 1870-1971

AREA 0022 S. E. PERSIAN GULF  
26.1N 54.7E

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
80/84	.0	.0	.0	.5	1.2	1.2	1.2	.2	22	3.9
75/79	.0	.2	.5	2.5	5.5	9.8	5.7	3.4	155	27.6
70/74	.0	.2	.5	5.2	9.3	17.1	16.2	8.7	321	57.1
65/69	.0	.0	.4	.2	1.4	3.4	3.2	1.1	54	9.6
60/64	.0	.0	.0	.0	.2	.5	1.1	.0	10	1.8
TOTAL	0	2	8	47	99	181	150	75	562	100.0
PCT	.0	.4	1.4	8.4	17.6	32.2	26.7	13.3		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALR
80/84	.2	.4	.7	.2	.3	.7	.8	.0	.0	.7
75/79	1.1	2.2	2.6	2.0	2.8	5.1	6.5	1.5	.0	3.7
70/74	2.5	3.6	3.2	1.5	3.2	10.8	18.1	7.1	.0	7.3
65/69	.9	.1	.0	.5	.4	1.8	3.5	1.1	.0	1.4
60/64	.2	.7	.0	.0	.0	.2	.7	.0	.0	.0
TOTAL	27	40	36	23	37	104	165	54	0	74
PCT	4.8	7.1	6.5	4.1	6.6	18.5	29.5	9.7	.0	13.2

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	82	80	76	71	65	61	61	71.1	223
06009	88	83	79	73	68	66	64	73.8	218
12015	87	85	82	75	69	64	62	74.9	234
18021	81	79	77	72	66	64	63	72.1	170
TOT	88	83	79	73	67	64	61	73.0	845

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.0	4.8	7.8	22.9	41.0	23.5	81
06009	.0	.0	9.2	20.9	38.6	20.9	12.4	75
12015	.0	.0	15.2	25.5	35.2	16.4	7.9	72
18021	.0	.0	10.4	12.2	33.0	12.2	7.7	115
TOT	0	0	59	101	189	165	85	599

PERIOD: (PRIMARY) 1948-1971  
(OVER-ALL) 1870-1971

MARCH

AREA 0022 S. E. PERSIAN GULF  
24.1N 54.7E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)

AIR-SEA TMP DIF	61	65	69	73	77	81	85	TOT	N	NO FOG
11/13	.0	.0	.0	.3	.2	.3	.5	8	.2	1.2
9/10	.0	.0	.0	.6	.0	.3	.2	3	.0	.5
7/8	.0	.0	.0	.2	.3	1.3	.0	17	.0	2.0
6	.0	.0	.0	.3	1.3	.2	.0	11	.0	1.8
5	.0	.0	.0	.8	1.7	.7	.0	19	.0	3.2
4	.0	.0	.5	.5	2.2	.2	.0	20	.2	3.2
3	.0	.0	.0	2.4	2.4	.5	.0	31	.0	5.2
2	.0	.0	1.2	4.4	2.7	.0	.0	49	.2	8.1
1	.0	.0	1.2	6.2	2.2	.0	.0	57	.0	9.6
0	.2	.2	5.2	7.7	.0	.0	.0	79	.2	13.1
-1	.0	.2	4.4	5.2	.0	.0	.0	58	.0	9.8
-2	.0	1.0	5.4	4.5	.3	.0	.0	67	.0	11.3
-3	.0	.7	4.5	2.5	.0	.0	.0	46	.0	7.7
-4	.3	1.2	4.9	1.3	.0	.0	.0	46	.0	7.7
-5	.2	1.3	4.0	.8	.0	.0	.0	38	.2	6.2
-6	.0	.7	3.4	.0	.0	.0	.0	24	.0	4.0
-7/-8	.5	.5	2.0	.0	.0	.0	.0	18	.0	3.0
-9/-10	.3	.8	.0	.0	.0	.0	.0	7	.0	1.2
-11/-13	.0	.2	.0	.0	.0	.0	.0	1	.0	.2
TOTAL	9	40	218	222	79	22	4	594	5	589
PCT	1.3	6.7	36.7	37.4	13.3	3.7	.7	100.0	.8	99.2

PERIOD: (PRIMARY) 1963-1971  
 MARCH  
 TABLE 18  
 AREA 0022 S. E. PERSIAN GULF  
 26.1N 54.7E

HGT	PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)													PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	.6	.0	.0	.0	.0	.6	.0	1.1	.0	.0	.0	.0	1.1
1-2	.0	.6	.0	.0	.0	.0	.6	.0	1.7	.0	.0	.0	.0	1.7
3-4	.0	1.5	.9	.0	.0	.0	2.4	.0	.9	1.7	.0	.0	.0	2.6
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-15	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.8	.9	.0	.0	.0	3.5	.0	3.6	1.7	.0	.0	.0	5.3

HGT	PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)										PCT			
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.9	.6	.0	.0	.0	.0	1.5	.2	.9	.0	.0	.0	.0	1.1
1-2	.0	.6	.6	.0	.0	.0	1.3	.0	3.0	1.9	.0	.0	.0	4.9
3-4	.0	.9	.9	.0	.0	.0	1.7	.0	.9	.0	.0	.0	.0	1.9
5-6	.0	.9	.0	.0	.0	.0	.9	.0	.0	.0	.0	.0	.0	.9
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.9	3.0	1.5	.0	.0	.0	5.3	.2	4.7	1.9	.0	.0	.0	6.8

PERIOD: (PRIMARY)  
(OVER-ALL) 1963-1971

MARCH

TABLE 18

AREA 0022 S. E. PERSIAN GULF  
26.1N 54.7E

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

	S										SW									
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+
<1	1.3	.0	.0	.0	.0	.0	1.3	2.1	.9	.2	.0	.0	.0	3.2	.0	.0	.0	.0	.0	.0
1-2	.9	4.1	.0	.0	.0	.0	4.9	.0	7.3	5.3	.0	.0	.0	12.6	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.9	.0	.0	.0	.9	.0	2.6	3.4	.0	.0	.0	6.2	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.5	.4	.0	.0	2.8	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.6	.0	.0	.0	.6	.0	.0	.2	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.1	4.1	1.5	.0	.0	.0	7.7	2.1	11.8	10.7	.4	.0	.0	25.0	.0	.0	.0	.0	.0	.0

	W										NW									
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+
HGT																				
<1	2.1	.6	.6	.0	.0	.0	3.4	.2	1.3	.0	.0	.0	.0	1.5	.0	.0	.0	.0	.0	.0
1-2	.0	6.8	4.1	.0	.0	.0	10.9	.0	4.9	.0	.0	.0	.0	4.9	.0	.0	.0	.0	.0	.0
3-4	.0	2.4	8.1	.9	.0	.0	11.3	.0	1.1	3.0	.0	.0	.0	4.1	.0	.0	.0	.0	.0	.0
5-6	.0	.0	2.6	2.1	.0	.0	4.9	.0	.0	.9	.0	.0	.0	.9	.0	.0	.0	.0	.0	.0
7	.0	.0	.9	1.7	.0	.0	2.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.9	.0	.0	.0	.9	.0	.9	.0	.0	.0	.0	.9	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.1	9.8	17.3	4.7	.0	.0	34.0	.2	8.1	3.8	.0	.0	.0	12.2	.0	.0	.0	.0	.0	12.2



APRIL

PERIOD: (PRIMARY) 1949-1971  
(OVER-ALL) 1964-1971AREA 0022 S. E. PERSIAN GULF  
26.1N 54.7E

TABLE 1

WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	RAIN	RAIN SHWR	DRZL	PRECIPITATION TYPE			HAIL	PCT FROD PCPN AT OB TIME	TOTAL PCPN OBS	THDR LTNG	OTHER WEATHER PHENOMENA					TOTAL OBS
				DRZL PCPN	FRZG PCPN	SNOW PCPN					OTHER FRZIN PCPN	FOG	SHR	HAZE	BLWG PCPN	
N	.1	.0	.0	.0	.0	.0	.0	.1	0	.0	.2	.0	.0	.0	.0	21
NE	.1	.0	.0	.0	.0	.0	.0	.1	0	.0	.0	.1	.0	.0	.0	24
E	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	28
SE	.0	.0	.0	.0	.0	.0	.0	.0	0	.1	.0	.0	.0	.0	.2	17
S	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	39
SW	.2	.0	.0	.0	.0	.0	.0	.2	1	.2	.0	.0	.0	.0	.3	36
W	.0	.0	.0	.0	.0	.0	.0	.0	0	.2	.0	.0	.0	.0	.5	86
NW	.2	.0	.0	.0	.0	.0	.0	.2	1	.0	.3	.0	.0	.0	.9	156
VAR	.0	.0	.0	.0	.0	.0	.0	.2	1	.0	.1	.5	.0	.0	.8	71
CALM	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.2	.4	.0	.0	.0	0
TOT OBS	3	.0	.0	.0	.0	.0	.0	.6	2	.0	.4	.4	.0	.0	.0	61
TOT PCT	.6	.0	.0	.0	.0	.0	.0	.6	.8	.8	.8	.6	.0	.0	.0	914
																100.0

TABLE 2

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	RAIN	RAIN SHWR	DRZL	PRECIPITATION TYPE			HAIL	PCT FRO PCPN AT OB TIME	TOTAL PCPN OBS	THDR LTNG	OTHER WEATHER PHENOMENA				TOTAL OBS
				DRZL PCPN	FRZG PCPN	SNOW PCPN	OTHER FRZIN PCPN				FOG	SHR	HAZE	BLWG PCPN	
0000	2.1	.0	.0	.0	.0	.0	.0	2.1	3	.7	.7	.0	.0	.0	142
0600	.6	.0	.0	.0	.0	.0	.0	.6	1	.0	1.9	10.8	.0	.0	157
1200	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	9.5	.0	.0	134
1800	.0	.0	.0	.0	.0	.0	.0	.0	0	1.7	.0	8.7	.0	.0	115
TOT	4	.0	.0	.0	.0	.0	.0	.7	4	.4	.4	.6	.0	.0	550
PCT	.7	.0	.0	.0	.0	.0	.0	.7	.7	.7	.7	8.4	.0	.0	100.0

APRIL

PERIOD: (PRIMARY) 1949-1971  
(OVER-ALL) 1864-1971

AREA 0022 S. E. PERSIAN GULF  
26.1N 54.7E

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)										HOUR (GMT)				
	0-3	4-10	11-21	22-33	34-47	48-61	TOTAL OBS	PCT FREQ	MEAN SPD	CO	03	06	09	12	15
N	1.0	2.0	.9	.0	.0	.0	26	4.0	7.8	4.2	.0	5.8	.0	5.3	4.2
NE	1.2	3.1	.5	.0	.0	.0	26	4.7	6.4	6.5	4.2	5.9	14.5	2.3	2.9
E	1.4	3.5	1.7	.0	.0	.0	40	6.6	7.9	6.1	4.2	11.2	4.8	5.1	1.9
SE	1.9	2.4	.1	.0	.0	.0	20	3.4	5.3	1.6	4.2	6.1	3.2	3.4	2.1
S	1.6	4.4	1.5	.2	.0	.0	46	7.6	7.6	5.6	4.2	10.1	8.1	10.5	10.4
SW	1.9	10.5	4.7	.3	.0	.0	105	17.4	9.0	13.2	16.7	16.0	21.0	23.7	20.8
W	3.3	16.6	10.0	.5	.0	.0	187	30.9	9.9	31.0	18.7	18.8	27.2	34.6	37.5
NW	1.4	7.2	4.5	.2	.0	.0	81	13.5	9.8	18.3	25.0	14.0	11.3	7.0	4.2
VAR	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	11.9	301	146	10	0	5	72	11.9	7.8	12.4	25.0	13.2	12.9	8.3	12.5
TOT OBS	149	49.7	24.1	1.7	.0	.0	606	100.0		142	12	136	31	133	24
TOT PCT	24.6	49.7	24.1	1.7	.0	.0	606	100.0		100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)										HOUR (GMT)				
	0-6	7-16	17-21	22-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	CO	03	06	09	12	15	18
N	1.9	1.8	.0	.0	.0	24	4.0	7.8	3.9	3.9	3.9	5.1	2.7		
NE	2.6	2.0	.0	.0	.0	28	4.7	6.4	6.3	6.3	7.5	1.9	2.7		
E	2.8	3.5	.3	.0	.0	40	6.6	7.9	6.0	10.0	4.6	4.6	5.5		
SE	2.4	1.0	.0	.0	.0	20	3.4	5.3	1.8	5.5	4.8	4.8	1.4		
S	3.9	2.4	.3	.0	.0	46	7.6	7.6	5.5	9.7	10.2	4.1			
SW	6.8	9.0	1.4	.0	.0	105	17.4	9.0	13.5	16.9	23.2	15.6			
W	10.0	16.4	4.4	.1	.0	187	30.9	9.9	25.9	19.8	35.0	41.4			
NW	4.7	6.8	1.7	.1	.0	81	13.5	9.8	15.8	13.5	6.5	15.6			
VAR	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0		
CALM	11.9	266	53	1	0	72	11.9	7.8	14.3	13.2	8.9	10.9			
TOT OBS	288	43.9	8.7	.2	.0	606	100.0		154	167	157	128			
TOT PCT	47.2	43.9	8.7	.2	.0	606	100.0		100.0	100.0	100.0	100.0	100.0		

PERIOD: (PRIMARY) 1949-1971  
(OVER-ALL) 1868-1971

APRIL

AREA 0022 S. E. PERSIAN GULF  
26.1N 54.7E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-20	21-30	30-47				
0000	14.3	13.0	44.2	27.3	1.2	.0	.0	8.1	100.0	154
0600	13.2	15.6	52.7	16.8	1.8	.0	.0	7.0	100.0	167
1200	8.9	10.8	52.9	26.8	.6	.0	.0	8.2	100.0	157
1800	10.9	10.9	48.4	26.6	3.1	.0	.0	8.2	100.0	129
TOT	72	77	301	146	10	.0	.0	7.8	100.0	606
PCT	11.9	12.7	49.7	24.1	1.7	.0	.0			

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)  
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8-6	OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	2.6	2.4	.8	.8	18	2.6	2.6
NE	2.3	.7	.5	.4	20	3.0	3.0
E	4.0	.7	2.4	.4	34	2.8	2.8
SE	2.0	.5	.3	.1	14	2.1	2.1
S	5.0	.2	.9	1.0	37	2.1	2.1
SW	13.4	1.9	1.6	1.2	63	1.7	1.7
W	21.7	2.2	3.3	2.4	136	1.7	1.7
NW	9.7	.2	2.0	.7	61	1.7	1.7
VAR	.0	.0	.0	.0	0	.0	.0
CALM	9.4	.9	.7	1.1	35	1.4	1.4
TOT OBS	326	36	60	37	459	1.9	1.9
TOT PCT	71.0	7.8	13.1	8.1	100.0		

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT) NH 24/8  
AND OCCURRENCE OF NH <5/2 BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8-6	OBSCD	TOTAL OBS	MEAN CLOUD COVER	PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT) NH 24/8										ANY HG? OBS	
								0-2	3-4	5-7	8-6	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24
N	2.6	2.4	.8	.8	18	2.6	2.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NE	2.3	.7	.5	.4	20	3.0	3.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
E	4.0	.7	2.4	.4	34	2.8	2.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
SE	2.0	.5	.3	.1	14	2.1	2.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
S	5.0	.2	.9	1.0	37	2.1	2.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
SW	13.4	1.9	1.6	1.2	63	1.7	1.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
W	21.7	2.2	3.3	2.4	136	1.7	1.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NW	9.7	.2	2.0	.7	61	1.7	1.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
VAR	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	9.4	.9	.7	1.1	35	1.4	1.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT OBS	326	36	60	37	459	1.9	1.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	71.0	7.8	13.1	8.1	100.0			.0	.2	.2	1.5	2.2	1.7	2.6	1.2	1.2	1.2	1.2	1.2



AREA 0022 S. E. PERSIAN GULF  
26.1N 54.7E

APRIL

PERIOD: (PRIMARY) 1949-1971  
(OVER-ALL) 1860-1971

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE  
OF CEILING HEIGHT (NH > 4/3) AND VSBY (NM)

CEILING (FEET)	OR >10	OR >5	OR >2	VSBY (NM) OR >1	OR >1/2	OR >1/4	OR >50YD	OR >0
OR >4500	3.1	3.9	3.9	3.9	3.9	3.9	3.9	3.9
OR >5000	3.5	4.3	4.3	4.3	4.3	4.3	4.3	4.3
OR >5500	5.7	6.8	6.8	6.8	6.8	6.8	6.8	6.8
OR >2000	7.0	8.4	8.4	8.4	8.4	8.4	8.4	8.4
OR >1000	8.8	10.5	10.5	10.5	10.5	10.5	10.5	10.5
OR >600	10.0	11.9	11.9	11.9	12.1	12.1	12.1	12.1
OR >300	10.2	12.1	12.1	12.1	12.3	12.3	12.3	12.3
OR >150	10.5	12.3	12.3	12.3	12.5	12.5	12.5	12.5
OR >0	10.5	12.3	12.3	12.3	12.5	12.5	12.5	12.5
TOTAL	51	60	60	60	61	61	61	61

TOTAL NUMBER OF OBS: 488 PCT FREQ NH < 5/8: 87.5

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	DBSCO	TOTAL OBS
67.5	12.2	4.3	1.9	1.5	2.3	3.5	2.7	4.1	.0	517	

PERIOD: (PRIMARY) 1949-1971  
(OVER-ALL) 1864-1971

APRIL

AREA 0022 S. E. PERSIAN GULF  
26.1N 54.7E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF  
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1/2<1 NO PCP	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2	.2
TOT %	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2	.2
PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1<2 NO PCP	.0	.0	.1	.1	.0	.0	.4	.2	.0	.0	.8	.8
TOT %	.0	.0	.1	.1	.0	.0	.4	.2	.0	.0	.8	.8
PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
2<5 NO PCP	.5	.2	.2	.0	.0	.2	.4	.4	.0	.2	2.1	2.1
TOT %	.5	.2	.2	.0	.0	.2	.4	.4	.0	.2	2.1	2.1
PCP	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2	.2
5<10 NO PCP	.6	.5	2.3	.3	1.3	2.9	3.7	3.1	.0	1.8	16.3	16.3
TOT %	.6	.5	2.3	.3	1.3	2.9	3.7	3.3	.0	1.8	16.3	16.3
PCP	.1	.1	.0	.0	.0	.2	.0	.0	.0	.0	.4	.4
10< NO PCP	3.0	3.9	5.0	3.0	5.9	13.6	25.8	9.8	.0	9.9	80.4	80.4
TOT %	3.1	4.0	5.0	3.0	5.9	13.8	25.8	9.8	.0	9.9	80.4	80.4
TOT OBS	4.2	4.7	7.9	3.5	7.1	16.9	30.4	13.9	.0	1.9	100.0	314
TOT PCT												

PERIOD: (PR. 123V) 1949-1971  
(OVER-ALL) 1804-1971

APRIL

AREA 0022 S. E. PERSIAN GULF  
26.1N 54.7E

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED  
WITH VARYING VALUES OF VISIBILITY

USBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALN	PCT TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT X	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT X	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1<2	0-3	.0	.0	.1	.1	.0	.0	.0	.0	.0	.0	.2
	4-10	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.3
	11-21	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.2
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT X	.0	.0	.1	.1	.0	.0	.3	.2	.0	.0	.7
2<5	0-3	.2	.3	.1	.0	.0	.0	.0	.0	.0	.2	.7
	4-10	.1	.0	.2	.0	.0	.2	.1	.2	.0	.0	.7
	11-21	.2	.0	.0	.0	.0	.3	.4	.0	.0	.0	.9
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT X	.4	.3	.3	.0	.0	.2	.5	.4	.0	.2	2.2
5<10	0-3	.0	.0	.3	.2	.0	.3	.3	.7	.0	1.6	3.5
	4-10	.0	.7	.9	.1	.9	1.7	1.8	1.6	.0	.0	8.1
	11-21	.2	.0	.0	.0	.2	1.3	1.4	.8	.0	.0	4.7
	22+	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.2
	TOT X	.2	.7	2.0	.3	1.1	3.3	3.5	3.2	.0	1.6	16.4
10+	0-3	.9	.3	1.0	.6	1.6	1.6	3.2	.7	.0	9.7	20.4
	4-10	1.6	2.3	2.5	2.0	3.5	3.9	14.4	5.6	.0	.0	40.6
	11-21	.6	.3	.9	.1	1.2	3.2	8.1	3.5	.0	.0	18.3
	22+	.0	.0	.0	.0	.2	.3	.6	.1	.0	.0	1.2
	TOT X	3.1	3.3	4.4	2.8	6.5	14.1	26.3	9.9	.0	9.7	80.5
TOT OBS		4.1	4.7	6.8	3.2	7.6	17.6	30.7	13.9	.0	11.4	579
TOT PCT												100.0

APRIL

AREA 0022 S. E. PERSIAN GULF  
26.1N 54.7E

PERIOD (PRIMARY) 1949-1971  
(OVER-ALL) 1964-1971

TABLE 10  
PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND  
OCCURRENCE OF NH <5/8 8Y HOUR

HOUR (GMT)	000	150	300	450	600	750	900	1050	1200	1350	1500	1650	1800	1950	2100	2250	2400	2550	2700	2850	3000	3150	3300	3450	3600	3750	3900	4050	4200	4350	4500	4650	4800	4950	5100	5250	5400	5550	5700	5850	6000	6150	6300	6450	6600	6750	6900	7050	7200	7350	7500	7650	7800	7950	8100	8250	8400	8550	8700	8850	9000	9150	9300	9450	9600	9750	9900	10050	10200	10350	10500	10650	10800	10950	11100	11250	11400	11550	11700	11850	12000	12150	12300	12450	12600	12750	12900	13050	13200	13350	13500	13650	13800	13950	14100	14250	14400	14550	14700	14850	15000	15150	15300	15450	15600	15750	15900	16050	16200	16350	16500	16650	16800	16950	17100	17250	17400	17550	17700	17850	18000	18150	18300	18450	18600	18750	18900	19050	19200	19350	19500	19650	19800	19950	20100	20250	20400	20550	20700	20850	21000	21150	21300	21450	21600	21750	21900	22050	22200	22350	22500	22650	22800	22950	23100	23250	23400	23550	23700	23850	24000	24150	24300	24450	24600	24750	24900	25050	25200	25350	25500	25650	25800	25950	26100	26250	26400	26550	26700	26850	27000	27150	27300	27450	27600	27750	27900	28050	28200	28350	28500	28650	28800	28950	29100	29250	29400	29550	29700	29850	30000	30150	30300	30450	30600	30750	30900	31050	31200	31350	31500	31650	31800	31950	32100	32250	32400	32550	32700	32850	33000	33150	33300	33450	33600	33750	33900	34050	34200	34350	34500	34650	34800	34950	35100	35250	35400	35550	35700	35850	36000	36150	36300	36450	36600	36750	36900	37050	37200	37350	37500	37650	37800	37950	38100	38250	38400	38550	38700	38850	39000	39150	39300	39450	39600	39750	39900	40050	40200	40350	40500	40650	40800	40950	41100	41250	41400	41550	41700	41850	42000	42150	42300	42450	42600	42750	42900	43050	43200	43350	43500	43650	43800	43950	44100	44250	44400	44550	44700	44850	45000	45150	45300	45450	45600	45750	45900	46050	46200	46350	46500	46650	46800	46950	47100	47250	47400	47550	47700	47850	48000	48150	48300	48450	48600	48750	48900	49050	49200	49350	49500	49650	49800	49950	50100	50250	50400	50550	50700	50850	51000	51150	51300	51450	51600	51750	51900	52050	52200	52350	52500	52650	52800	52950	53100	53250	53400	53550	53700	53850	54000	54150	54300	54450	54600	54750	54900	55050	55200	55350	55500	55650	55800	55950	56100	56250	56400	56550	56700	56850	57000	57150	57300	57450	57600	57750	57900	58050	58200	58350	58500	58650	58800	58950	59100	59250	59400	59550	59700	59850	60000	60150	60300	60450	60600	60750	60900	61050	61200	61350	61500	61650	61800	61950	62100	62250	62400	62550	62700	62850	63000	63150	63300	63450	63600	63750	63900	64050	64200	64350	64500	64650	64800	64950	65100	65250	65400	65550	65700	65850	66000	66150	66300	66450	66600	66750	66900	67050	67200	67350	67500	67650	67800	67950	68100	68250	68400	68550	68700	68850	69000	69150	69300	69450	69600	69750	69900	70050	70200	70350	70500	70650	70800	70950	71100	71250	71400	71550	71700	71850	72000	72150	72300	72450	72600	72750	72900	73050	73200	73350	73500	73650	73800	73950	74100	74250	74400	74550	74700	74850	75000	75150	75300	75450	75600	75750	75900	76050	76200	76350	76500	76650	76800	76950	77100	77250	77400	77550	77700	77850	78000	78150	78300	78450	78600	78750	78900	79050	79200	79350	79500	79650	79800	79950	80100	80250	80400	80550	80700	80850	81000	81150	81300	81450	81600	81750	81900	82050	82200	82350	82500	82650	82800	82950	83100	83250	83400	83550	83700	83850	84000	84150	84300	84450	84600	84750	84900	85050	85200	85350	85500	85650	85800	85950	86100	86250	86400	86550	86700	86850	87000	87150	87300	87450	87600	87750	87900	88050	88200	88350	88500	88650	88800	88950	89100	89250	89400	89550	89700	89850	90000	90150	90300	90450	90600	90750	90900	91050	91200	91350	91500	91650	91800	91950	92100	92250	92400	92550	92700	92850	93000	93150	93300	93450	93600	93750	93900	94050	94200	94350	94500	94650	94800	94950	95100	95250	95400	95550	95700	95850	96000	96150	96300	96450	96600	96750	96900	97050	97200	97350	97500	97650	97800	97950	98100	98250	98400	98550	98700	98850	99000	99150	99300	99450	99600	99750	99900	100000
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TABLE 11

PERCENT FREQUENCY VSBY (NM) 8Y HOUR

HOUR (GMT)	<1/2	1/2-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24	TOTAL OBS
00003	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	121
06009	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	142
12015	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	124
18021	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	101
TOT	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	488
PCT	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR  
CEILING HGT (FEET, NH >4/8) HOUR

HOUR (GMT)	<150 <500	<300 <1	<450 <1000	<600 <1	<750 <1000	<900 <1	<1050 <1	<1200 <1	<1350 <1	<1500 <1	<1650 <1	<1800 <1	<1950 <1	<2100 <1	<2250 <1	<2400 <1	<2550 <1	<2700 <1	<2850 <1	<3000 <1	<3150 <1	<3300 <1	<3450 <1	<3600 <1	<3750 <1	<3900 <1	<4050 <1	<4200 <1	<4350 <1	<4500 <1	<4650 <1	<4800 <1	<4950 <1	<5100 <1	<5250 <1	<5400 <1	<5550 <1	<5700 <1	<5850 <1	<6000 <1	<6150 <1	<6300 <1	<6450 <1	<6600 <1	<6750 <1	<6900 <1	<7050 <1	<7200 <1	<7350 <1	<7500 <1	<7650 <1	<7800 <1	<7950 <1	<8100 <1	<8250 <1	<8400 <1	<8550 <1	<8700 <1	<8850 <1	<9000 <1	<9150 <1	<9300 <1	<9450 <1	<9600 <1	<9750 <1	<9900 <1	<10050 <1	<10200 <1	<10350 <1	<10500 <1	<10650 <1	<10800 <1	<10950 <1	<11100 <1	<11250 <1	<11400 <1	<11550 <1	<11700 <1	<11850 <1	<12000 <1	<12150 <1	<12300 <1	<12450 <1	<12600 <1	<12750 <1	<12900 <1	<13050 <1	<13200 <1	<13350 <1	<13500 <1	<13650 <1	<13800 <1	<13950 <1	<14100 <1	<14250 <1	<14400 <1	<14550 <1	<14700 <1	<14850 <1	<15000 <1	<15150 <1	<15300 <1	<15450 <1	<15600 <1	<15750 <1	<15900 <1	<16050 <1	<16200 <1	<16350 <1	<16500 <1	<16650 <1	<16800 <1	<16950 <1	<17100 <1	<17250 <1	<17400 <1	<17550 <1	<17700 <1	<17850 <1	<18000 <1	<18150 <1	<18300 <1	<18450 <1	<18600 <1	<18750 <1	<18900 <1	<19050 <1	<19200 <1	<19350 <1	<19500 <1	<19650 <1	<19800 <1	<19950 <1	<20100 <1	<20250 <1	<20400 <1	<20550 <1	<20700 <1	<20850 <1	<21000 <1	<21150 <1	<21300 <1	<21450 <1	<21600 <1	<21750 <1	<21900 <1	<22050 <1	<22200 <1	<22350 <1	<22500 <1	<22650 <1	<22800 <1	<22950 <1	<23100 <1	<23250 <1	<23400 <1	<23550 <1	<23700 <1	<23850 <1	<24000 <1	<24150 <1	<24300 <1	<24450 <1	<24600 <1	<24750 <1	<24900 <1	<25050 <1	<25200 <1	<25350 <1	<25500 <1	<25650 <1	<25800 <1	<25950 <1	<26100 <1	<26250 <1	<26400 <1	<26550 <1	<26700 <1	<26850 <1	<27000 <1	<27150 <1	<27300 <1	<27450 <1	<27600 <1	<27750 <1	<27900 <1	<28050 <1	<28200 <1	<28350 <1	<28500 <1	<28650 <1	<28800 <1	<28950 <1	<29100 <1	<29250 <1	<29400 <1	<29550 <1	<29700 <1	<29850 <1	<30000 <1	<30150 <1	<30300 <1	<30450 <1	<30600 <1	<30750 <1	<30900 <1	<31050 <1	<31200 <1	<31350 <1	<31500 <1	<31650 <1	<31800 <1	<31950 <1	<32100 <1	<32250 <1	<32400 <1	<32550 <1	<32700 <1	<32850 <1	<33000 <1	<33150 <1	<33300 <1	<33450 <1	<33600 <1	<33750 <1	<33900 <1	<34050 <1	<34200 <1	<34350 <1	<34500 <1	<34650 <1	<34800 <1	<34950 <1	<35100 <1	<35250 <1	<35400 <1	<35550 <1	<35700 <1	<35850 <1	<36000 <1	<36150 <1	<36300 <1	<36450 <1	<36600 <1	<36750 <1	<36900 <1	<37050 <1	<37200 <1	<37350 <1	<37500 <1	<37650 <1	<37800 <1	<37950 <1	<38100 <1	<38250 <1	<38400 <1	<38550 <1	<38700 <1	<38850 <1	<39000 <1	<39150 <1	<39300 <1	<39450 <1	<39600 <1	<39750 <1	<39900 <1	<40050 <1	<40200 <1	<40350 <1	<40500 <1	<40650 <1	<40800 <1	<40950 <1	<41100 <1	<41250 <1	<41400 <1	<41550 <1	<41700 <1	<41850 <1	<42000 <1	<42150 <1	<42300 <1	<42450 <1	<42600 <1	<42750 <1	<42900 <1	<43050 <1	<43200 <1	<43350 <1	<43500 <1	<43650 <1	<43800 <1	<43950 <1	<44100 <1	<44250 <1	<44400 <1	<44550 <1	<44700 <1	<44850 <1	<45000 <1	<45150 <1	<45300 <1	<45450 <1	<45600 <1	<45750 <1	<45900 <1	<46050 <1	<46200 <1	<46350 <1	<46500 <1	<46650 <1	<46800 <1	<46950 <1	<47100 <1	<47250 <1	<47400 <1	<47550 <1	<47700 <1	<47850 <1	<48000 <1	<48150 <1	<48300 <1	<48450 <1	<48600 <1	<48750 <1	<48900 <1	<49050 <1	<49200 <1	<49350 <1	<49500 <1	<49650 <1	<49800 <1	<49950 <1	<50100 <1	<50250 <1	<50400 <1	<50550 <1	<50700 <1	<50850 <1	<51000 <1	<51150 <1	<51300 <1	<51450 <1	<51600 <1	<51750 <1	<51900 <1	<52050 <1	<52200 <1	<52350 <1	<52500 <1	<52650 <1	<52800 <1	<52950 <1	<53100 <1	<53250 <1	<53400 <1	<53550 <1	<53700 <1	<53850 <1	<54000 <1	<54150 <1	<54300 <1	<54450 <1	<54600 <1	<54750 <1	<54900 <1	<55050 <1	<55200 <1	<55350 <1	<55500 <1	<55650 <1	<55800 <1	<55950 <1	<56100 <1	<56250 <1	<56400 <1	<56550 <1	<56700 <1	<56850 <1	<57000 <1	<57150 <1	<57300 <1	<57450 <1	<57600 <1	<57750 <1	<57900 <1	<58050 <1	<58200 <1	<58350 <1	<58500 <1	<58650 <1	<58800 <1	<58950 <1	<59100 <1	<59250 <1	<59400 <1	<59550 <1	<59700 <1	<59850 <1	<60000 <1	<60150 <1	<60300 <1	<60450 <1	<60600 <1	<60750 <1	<60900 <1	<61050 <1	<61200 <1	<61350 <1	<61500 <1	<61650 <1	<61800 <1	<61950 <1	<62100 <1	<62250 <1	<62400 <1	<62550 <1	<62700 <1	<62850 <1	<63000 <1	<63150 <1	<63300 <1	<63450 <1	<63600 <1	<63750 <1	<63900 <1	<64050 <1	<64200 <1	<64350 <1	<64500 <1	<64650 <1	<64800 <1	<64950 <1	<65100 <1	<65250 <1	<65400 <1	<65550 <1	<65700 <1	<65850 <1	<66000 <1	<66150 <1	<66300 <1	<66450 <1	<66600 <1	<66750 <1	<66900 <1	<67050 <1	<67200 <1	<67350 <1	<67500 <1	<67650 <1	<67800 <1	<67950 <1	<68100 <1	<68250 <1	<68400 <1	<68550 <1	<68700 <1	<68850 <1	<69000 <1	<69150 <1	<69300 <1	<69450 <1	<69600 <1	<69750 <1	<69900 <1	<70050 <1	<70200 <1	<70350 <1	<70500 <1	<70650 <1	<70800 <1	<70950 <1	<71100 <1	<71250 <1	<71400 <1	<71550 <1	<71700 <1	<71850 <1	<72000 <1	<72150 <1	<72300 <1	<72450 <1	<72600 <1	<72750 <1	<72900 <1	<73050 <1	<73200 <1	<73350 <1	<73500 <1	<73650 <1	<73800 <1	<73950 <1	<74100 <1	<74250 <1	<74400 <1	<74550 <1	<74700 <1	<74850 <1	<75000 <1	<75150 <1	<75300 <1	<75450 <1	<75600 <1	<75750 <1	<75900 <1	<76050 <1	<76200 <1	<76350 <1	<76500 <1	<76650 <1	<76800 <1	<76950 <1	<77100 <1	<77250 <1	<77400 <1	<77550 <1	<77700 <1	<77850 <1	<78000 <1	<78150 <1	<78300 <1	<78450 <1	<78600 <1	<78750 <1	<78900 <1	<79050 <1	<79200 <1	<79350 <1	<79500 <1	<79650 <1	<79800 <1	<79950 <1	<80100 <1	<80250 <1	<80400 <1	<80550 <1	<80700 <1	<80850 <1	<81000 <1	<81150 <1	<81300 <1	<81450 <1	<81600 <1	<81750 <1	<81900 <1	<82050 <1	<82200 <1	<82350 <1	<82500 <1	<82650 <1	<82800 <1	<82950 <1	<83100 <1	<83250 <1	<83400 <1	<83550 <1	<83700 <1	<83850 <1	<84000 <1	<84150 <1	<84300 <1	<84450 <1	<84600 <1	<84750 <1	<84900 <1	<85050 <1	<85200 <1	<85350 <1	<85500 <1	<85650 <1	<85800 <1	<85950 <1	<86100 <1	<86250 <1	<86400 <1	<86550 <1	<86700 <1	<86850 <1	<87000 <1	<87150 <1	<87300 <1	<87450 <1	<87600 <1	<87750 <1	<87900 <1	<88050 <1	<88200 <1	<88350 <1	<88500 <1	<88650 <1	<88800 <1	<88950 <1	<89100 <1	<89250 <1	<89400 <1	<89550 <1	<89700 <1	<89850 <1	<90000 <1	<90150 <1	<90300 <1	<90450 <1	<90600 <1	<90750 <1	<90900 <1	<91050 <1	<91200 <1	<91350 <1	<91500 <1	<91650 <1	<91800 <1	<91950 <1	<92100 <1	<92250 <1	<92400 <1	<92550 <1	<92700 <1	<92850 <1	<93000 <1	<93150 <1	<93300 <1	<93450 <1	<93600 <1	<93750 <1	<93900 <1	<94050 <1	<94200 <1	<94350 <1	<94500 <1	<94650 <1	<94800 <1	<94950 <1	<95100 <1	<95250 <1	<95400 <1	<95550 <1	<95700 <1	<95850 <1	<96000 <1	<96150 <1	<96300 <1	<96450 <1	<96600 <1	<96750 <1	<96900 <1	<97050 <1	<97200 <1	<97350 <1	<97500 <1	<97650 <1	<97800 <1	<97950 <1	<98100 <1	<98250 <1	<98400 <1	<98550 <1	<98700 <1	<98850 <1	<99000 <1	<99150 <1	<99300 <1	<99450 <1	<99600 <1	<99750 <1	<99900 <1	<100050 <1	<100200 <1	<100350 <1	<100500 <1	<100650 <1	<100800 <1	<100950 <1	<101100 <1	<101250 <1	<101400 <1	<101550 <1	<101700 <1	<101850 <1	<102000 <1	<102150 <1	<102300 <1	<102450 <1	<102600 <1	<102750 <1	<102900 <1	<103050 <1	<103200 <1	<103350 <1	<10350
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APRIL

PERIOD: (REIMARK) 1940-1971  
(OVER-ALL) 1964-1971

AREA 0022 S. E. PERSIAN GULF  
26.1N 54.7E

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
85/89	.0	.0	.0	.5	2.7	2.9	.5	.0	27	6.6
80/84	.3	.0	.2	1.2	5.9	11.5	5.1	2.2	107	26.1
75/79	.0	.0	.0	1.0	6.8	16.1	13.6	7.6	197	48.0
70/74	.0	.0	.0	.5	1.7	4.1	8.8	2.9	74	18.0
65/69	.0	.0	.0	.0	.2	.5	.0	.2	4	1.0
60/64	.0	.0	.0	.0	.0	.0	.0	.0	1	.2
TOTAL	.0	.0	1	3.2	17.3	35.4	31.0	12.9	410	100.0
PCT	.0	.0	.2	3.2	17.3	35.4	31.0	12.9		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CAL
85/89	.4	.0	.3	.7	.2	1.5	1.2	.4	.0	2.0
80/84	.4	1.8	2.8	.7	2.0	5.9	7.3	2.3	.0	2.9
75/79	2.3	2.0	4.3	2.0	4.0	5.9	15.6	6.0	.0	6.1
70/74	.0	.9	.9	.0	1.7	2.6	7.1	4.2	.0	.7
65/69	.4	.1	.0	.0	.0	.0	.0	.2	.0	.2
60/64	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0
TOTAL	14	19	34	14	32	65	127	53	0	49
PCT	3.4	4.7	8.3	3.6	7.9	15.9	31.2	12.1	.0	12.0

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
0000	83	81	80	75	70	67	67	75.2	155
0600	87	85	85	79	73	72	66	78.6	1.4
1200	88	87	86	80	72	70	64	79.9	163
1800	85	84	81	76	72	70	66	76.2	136
TOT	88	87	85	77	72	69	64	77.6	628

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
0000	.0	1.9	6.4	28.3	39.6	23.6	82	106
0600	.0	2.4	18.1	41.7	31.5	6.3	77	127
1200	.0	8.1	27.0	45.0	12.6	7.2	73	111
1800	.0	2.1	13.8	31.9	38.3	13.8	80	94
TOT	0	16	73	163	132	54	78	438

PERIOD: (PRIMARY) 1949-1971  
(OVER-ALL) 1864-1971

APRIL

AREA: C022 S. E. PERSIAN GULF  
26.1N 54.7E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)  
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	61	65	69	73	77	81	85	TOT	W FOG	MO FOG
11/13	.0	.0	.0	.0	.0	.2	.2	2	.0	.4
9/10	.0	.0	.0	.0	.0	1.3	1.1	11	.0	2.4
7/8	.0	.0	.0	.4	.4	2.4	2.4	24	.0	5.2
6	.0	.0	.0	.4	1.9	2.6	.4	25	.2	5.2
5	.0	.0	.0	.6	1.3	2.4	.6	23	.0	5.0
4	.0	.0	.0	.9	4.5	3.4	.9	45	.0	9.7
3	.0	.0	.0	1.7	3.2	2.8	.0	36	.0	7.8
2	.0	.0	.0	1.9	5.6	1.3	.0	41	.0	8.8
1	.0	.0	.2	5.2	6.7	.9	.0	60	.0	12.9
0	.0	.0	.6	6.3	5.4	.2	.0	58	.0	12.5
-1	.0	.0	.0	5.2	4.5	.6	.0	48	.0	10.3
-2	.0	.0	2.2	3.7	1.9	.2	.0	37	.2	7.8
-3	.2	.0	.6	3.4	.2	.0	.0	21	.0	4.5
-4	.0	.2	.9	2.8	.2	.0	.0	18	.0	3.9
-5	.0	.4	1.3	.2	.0	.0	.0	8	.0	1.7
-6	.0	.0	.2	.6	.0	.0	.0	6	.2	1.1
-7/-8	.0	.0	.0	.2	.0	.0	.0	1	.0	.2
TOTAL	1	3	27	154	168	85	26	444	3	461
PCT	.2	.6	5.8	33.2	36.2	18.3	5.6	100.0	.6	99.4

PERIOD: (PRIMARY) 1963-1971  
(OVER-ALL)

APRIL

TABLE 18

AREA 0022 S. E. PERSIAN GULF  
26.1N 54.7E

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N					NE					PCT		
	1-3	4-10	11-21	22-33	34-47	48+	1-3	4-10	11-21	22-33		34-47	48+
<1	1.1	.0	.0	.0	.0	.0	.0	1.1	1.1	.0	.0	.0	2.1
1-2	.0	1.6	.0	.0	.0	.0	.0	.5	.0	.0	.0	.0	.5
3-4	.0	.0	.0	.0	.0	.0	.0	1.1	.0	.0	.0	.0	1.1
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.1	1.6	.0	.0	.0	.0	.0	2.6	1.1	.0	.0	.0	3.7

HGT	F					SE					PCT			
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.1	.0	.0	.0	.0	1.1	.0	1.1	.0	.0	.0	.0	1.1
1-2	.0	3.9	.0	.0	.0	.0	3.9	.0	1.1	.0	.0	.0	.0	1.6
3-4	.0	.0	2.1	.0	.0	.0	2.1	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	5.0	2.1	.0	.0	.0	7.1	.0	2.1	.0	.0	.0	.0	2.6

APRIL  
TABLE 18  
AREA 0022 S. E. PERSIAN GULF  
20.1N 54.7E

PERIOD: (PRIMARY)  
(OVER-ALL) 1963-1971

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.0	1.1	.0	.0	.0	.0	1.1	2.1	3.4	.0	.0	.0	.0	5.5
1-2	1.6	2.2	.6	.0	.0	.0	5.5	.0	3.4	1.1	.0	.0	.0	6.6
3-6	.0	.8	.8	.0	.0	.0	1.6	.0	1.3	4.5	.0	.0	.0	5.8
7	.0	.0	1.1	1.1	.0	.0	2.1	.0	.0	1.1	.0	.0	.0	1.1
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.1	1.1	.0	.0	3.2
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.8	4.7	2.6	1.1	.0	.0	10.3	4.2	8.2	8.7	1.1	.0	.0	22.1

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	4.2	6.8	.0	.0	.0	.0	11.1	1.1	1.3	.0	.0	.0	.0	3.4
1-2	1.1	7.9	4.2	.0	.0	.0	13.2	1.1	2.9	.0	.0	.0	.0	3.9
3-6	.0	3.2	5.0	.0	.0	.0	8.2	.0	2.1	2.4	.0	.0	.0	4.5
7	.0	.0	4.2	1.1	.0	.0	5.3	.0	.0	1.1	.0	.0	.0	1.1
8-9	.0	.0	1.1	.0	.0	.0	1.1	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	5.3	17.9	15.3	1.1	.0	.0	39.5	2.1	6.3	3.7	.0	.0	.0	12.1



PERIOD: (PRIMARY)  
(OVER-ALL) 1963-1971

APRIL

AREA 0022 S. E. PERSIAN GULF  
26.1N 54.7E

TABLE 18 (CONT)

HGT	WIND SPEED (KTS) VS SEA HEIGHT (FT)							TOT OBS
	0-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	22.8	14.0	.9	.0	.0	.0	37.7	114
1-2	5.3	20.2	5.3	.0	.0	.0	30.7	
3-4	.0	7.0	12.3	.0	.0	.0	19.3	
5-6	.0	.0	6.1	1.8	.0	.0	7.9	
7	.0	.0	2.6	.9	.0	.0	3.5	
9-9	.0	.0	.9	.0	.0	.0	.9	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	18.1	41.2	28.1	2.6	.0	.0	100.0	

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+ TOTAL	MEAN HGT	
<1	13.2	23.8	15.4	2.7	1.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	211	2
6-7	.0	.8	3.5	1.1	.3	.3	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	24	4
8-9	.3	.5	.8	.0	.0	.5	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9	4
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
12-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
INDET	26.2	4.3	2.7	.5	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	126	1
TOTAL	147	109	83	16	9	3	3	0	0	0	0	0	0	0	0	0	0	0	0	370	2
PCT	39.7	29.5	22.4	4.3	2.4	.8	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1948-1971  
 (OVER-ALL) 1911-1971

MAY

AREA 0022 S. E. PERSIAN GULF  
 20.1N 54.7E

TABLE 1  
 PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	RAIN	RAIN SHWR	DRZL	PRECIPITATION TYPE				HAIL	PCT FREQ PCPN AT OB TIME	TOTAL PCPN OBS	THOR LTNG	OTHER WEATHER PHENOMENA				TOTAL OBS
				FRZG PCPN	SNOW	OTHER FRZN PCPN	FOG PCPN					SMOKE	HAZE	BLWG	NO SIG WEA	
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.2	2.6	19
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	2.7	17
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	.3	4.6	33
SE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.1	.2	.1	3.0	20
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.9	.3	5.7	40
SW	.2	.0	.0	.0	.0	.0	.0	.0	.2	1	.2	.5	3.3	2.0	7	121
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	1.4	.0	23.7	191
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	11.7	78
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	.4	.5	8.8	59
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.13	.63	.27	465	570
TOT OBS	1	.0	.0	.0	.0	.0	.0	.0	.2	.1	.4	2.3	11.1	4.7	81.3	100.0

TABLE 2  
 PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	RAIN		DRZL	PRECIPITATION TYPE			HAIL	PCT FREQ PCPN AT OBTIME	TOTAL PCPN OBS	THOR LYNG	OTHER WEATHER PHENOMENA				TOTAL OBS	
	RAIN	SHWR	FRZG PCPN	SNOW PCPN	FRZN PCPN	FOG NO PCPN					SMOKE HAZE	BLWG SNOW H2A	BLWG OUST H2A	NO SIG WEA		
00003	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.7	12.3	.3	4.9	.78.4	162
06009	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.9	7.7	.0	4.5	83.9	156
12015	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.4	13.7	.0	4.8	80.1	146
18021	.7	.0	.0	.0	.0	.0	.0	.7	1	.7	2.2	5.7	.0	5.2	82.1	134
TOT	1	.0	.0	.0	.0	.0	.0	.2	1	2	14	63	.0	29	488	598
PCT	.2	.0	.0	.0	.0	.0	.0	.2	.1	.3	2.3	10.9	.0	4.8	81.6	100.0

PERIOD: (PRIMARY) 1948-1971  
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MAY

AREA 0022 S. E. PERSIAN GULF  
26.1N 54.7E

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL UWS	PCT FREQ	MEAN SPD	HOUR (GMT)											
										00	03	06	09	12	15	18	21				
N	.7	1.9	.5	.0	.0	.0	21	3.1	6.9	3.0	.0	5.1	4.8	2.2	1.7	2.3	.0				
NE	.8	2.1	.1	.0	.0	.0	21	3.0	5.5	3.2	2.9	4.3	9.7	1.5	.0	1.5	7.1				
E	1.3	3.7	.4	.0	.0	.0	37	5.4	6.0	3.5	14.7	11.6	1.6	3.6	6.8	2.3	4.8				
SE	1.2	1.6	.4	.0	.0	.0	22	3.2	5.6	4.7	.0	3.8	3.2	2.4	.0	2.3	4.8				
S	1.4	4.1	1.7	.1	.0	.0	50	7.3	8.3	8.9	22.1	9.3	.0	8.2	3.2	1.7	11.9				
SW	2.4	14.6	4.1	.1	.0	.0	146	21.2	8.2	20.0	19.1	21.0	20.2	28.1	12.9	16.9	26.2				
W	3.1	18.9	11.1	1.3	.0	.0	238	34.4	9.8	33.7	20.8	23.8	55.6	34.8	50.0	41.9	26.2				
NW	1.1	6.6	3.1	.3	.0	.0	90	13.1	10.0	12.2	8.8	7.1	4.8	12.3	23.3	23.1	9.3				
VAR	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0				
CALM	9.1	3.0	.62	.3	.0	.0	63	9.1	.0	10.8	11.8	13.9	.0	6.8	.0	7.7	9.5				
TOT OBS	146	510	254	1.9	.0	.0	671	100.0	7.9	156	117	151	51	146	29	130	21				
TOT PCT	21.1	53.5	25.4	1.9	.0	.0	100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0				

TABLE 3A

WIND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)											
									00	03	06	09	12	15	18	21				
N	1.7	1.3	.0	.0	.0	21	3.1	6.9	2.7	.0	5.1	2.1	2.1	2.1	2.2	.0				
NE	2.1	.9	.0	.0	.0	21	3.0	5.5	3.1	.0	5.2	1.3	2.3	2.3	.0	.0				
E	3.0	2.4	.0	.0	.0	37	5.4	6.0	4.3	.0	9.9	4.1	2.6	2.6	.0	.0				
SE	2.4	.8	.0	.0	.0	22	3.2	5.6	4.2	.0	3.7	2.0	2.6	2.6	.0	.0				
S	3.3	3.5	.5	.0	.0	30	7.3	8.3	10.1	.0	7.7	7.7	3.1	3.1	.0	.0				
SW	9.5	10.9	.8	.1	.0	146	21.2	8.2	19.9	.0	20.9	23.6	18.2	18.2	.0	.0				
W	10.9	19.9	3.3	.4	.0	238	34.4	9.8	32.5	.0	29.3	37.3	39.7	39.7	.0	.0				
NW	4.2	7.1	1.8	.0	.0	90	13.1	10.0	11.9	.0	5.7	14.1	21.2	21.2	.0	.0				
VAR	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0				
CALM	9.1	.0	.0	.0	.0	63	9.1	.0	10.9	.0	11.3	5.7	7.9	7.9	.0	.0				
TOT OBS	320	323	44	4	.0	691	100.0	7.9	183	.0	182	175	151	151	.0	.0				
TOT PCT	46.3	46.7	6.4	.6	.0	100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0				

PERIOD: (PRIMARY) 1948-1971  
(OVER-ALL) 1911-1971

MAY

AREA 0022 S. E. PERSIAN GULF  
20.1N 56.7E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
0003	10.9	9.8	51.4	26.2	1.6	.0	.0	8.1	100.0	183
0609	11.5	15.4	39.9	12.6	.5	.0	.0	6.4	100.0	182
1215	5.7	9.1	55.4	26.9	2.8	.0	.0	8.6	100.0	175
1821	7.9	13.9	46.4	29.1	2.6	.0	.0	8.7	100.0	151
TOT	63	83	370	162	13	0	0	7.9		691
PCT	9.1	12.0	53.5	23.4	1.9	.0	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)  
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8-6	TOTAL OBS	MEAN CLOUD COVER
N	3.0	.4	.2	.0	18	.9
NE	2.5	.2	.0	.2	15	.0
E	4.3	.9	.0	.0	27	.5
SE	3.3	.3	.1	.0	19	.7
S	6.2	.1	.4	.1	36	.9
SW	19.6	1.1	.4	.0	112	.8
W	27.8	1.7	1.8	.0	164	.9
NW	12.7	.0	.5	.4	71	.7
VAR	.0	.0	.0	.0	0	.0
CALM	9.3	.2	.4	.0	51	.4
TOT OBS	456	27	21	11	515	.8
TOT PCT	58.5	5.2	4.1	2.1	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT) NH 24/8)  
AND OCCURRENCE OF NH 45/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH 45/8	ANY HGT	TOTAL OBS
	145	299	599	999	1999	3999	4999	6499	7999				
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.5	18
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.7	15
E	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	5.1	27
SE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.6	19
S	.1	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	6.7	36
SW	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	21.4	112
W	.0	.0	.0	.0	.3	.1	.2	.2	.0	.0	.0	31.1	164
NW	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	13.2	71
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
CALM	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	51
TOT OBS	4	0	0	1	3	1	2	2	0	0	0	499	515
TOT PCT	.8	.0	.0	.2	.6	.2	.4	.4	.2	.4	.4	96.9	100.0

PERIOD: (PRIMARY) 1948-1971  
(OVER-ALL) 1911-1971

MAY

AREA 0022 S. E. PERSIAN GULF  
26.1N 54.7E

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE  
OF CEILING HEIGHT (NH >4/8) AND VSBY (NH)

CEILING (FEET)	VSBY (NH)		OR		OR		OR		OR
	>10	>5	>2	>1	>1/2	>1/4	>5/10	>0	
OR >6500	.4	.6	.6	.5	.6	.6	.6	.6	.6
OR >5000	.6	.7	.9	.9	.9	.9	.9	.9	.9
OR >3500	.7	1.1	1.3	1.3	1.3	1.3	1.3	1.3	1.3
OR >2000	.9	1.3	1.5	1.5	1.5	1.5	1.5	1.5	1.5
OR >1000	1.3	1.9	2.1	2.1	2.1	2.1	2.1	2.1	2.1
OR >600	1.3	2.1	2.2	2.2	2.2	2.2	2.2	2.2	2.2
OR >300	1.3	2.1	2.2	2.2	2.2	2.2	2.2	2.2	2.2
OR >150	1.3	2.1	2.2	2.2	2.2	2.2	2.2	2.2	2.2
OR >0	1.3	2.2	2.4	2.4	2.4	2.4	2.4	2.4	2.4
TOTAL	7	12	13	13	13	13	14	14	14

TOTAL NUMBER OF OBS: 534

PCT FREQ NH <5/8: 97.4

TABLE 7a

PERCENTAGE FREQ OF LOW CLOUDS (HEIGHTS)

	0	1	2	3	4	5	6	7	8	9	TOTAL
											OBS
81.4	9.5	3.5	1.4	.9	.9	.5	.5	.7	1.0	.5	576

MAY

TABLE F

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF  
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NO PCP	.0	.0	.0	.1	.1	.0	.0	.0	.0	.4	.5	.5
TOT %	.0	.0	.0	.1	.1	.0	.0	.0	.0	.4	.5	.5
PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NO PCP	.0	.0	.0	.0	.4	.2	.1	.2	.0	.0	.9	.9
TOT %	.0	.0	.0	.0	.4	.2	.1	.2	.0	.0	.9	.9
PCP	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.2	.2
NO PCP	.0	.0	.3	*	.4	.7	1.0	.4	.0	.2	3.0	3.0
TOT %	.0	.0	.3	*	.4	.7	1.1	.4	.0	.2	3.2	3.2
PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NO PCP	1.6	.7	1.8	.8	.9	4.5	7.3	4.3	.0	1.6	23.5	23.5
TOT %	1.6	.7	1.8	.8	.9	4.5	7.3	4.3	.0	1.6	23.5	23.5
PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NO PCP	1.8	2.4	3.5	2.5	5.4	15.8	23.3	8.9	.0	8.2	71.9	71.9
TOT %	1.8	2.4	3.5	2.5	5.4	15.8	23.3	8.9	.0	8.2	71.9	71.9
TOT OBS	3.4	3.1	5.3	3.5	7.1	21.2	31.9	13.3	.0	10.4	100.0	570
TOT PCT												

PERIOD: (PRI-ARY) 1348-1971  
(OVER-ALL) 1411-1971

MAY

AREA 0022 S. E. PERSIAN GULF  
26.1N 54.7E

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED  
WITH VARYING VALUES OF VISIBILITY

VS3Y (NM)	SPO KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.3	
	4-10	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	.1	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.4	
	TOT %	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	.0	
1, 2 <1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1 <2	0-3	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	
	4-10	.0	.0	.0	.0	.1	.1	.1	.0	.0	.0	.4	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.3	.1	.1	.2	.0	.0	.7	
2 <5	0-3	.0	.0	.0	.0	.0	.1	.1	.0	.0	.1	.4	
	4-10	.0	.0	.3	.0	.2	.4	.7	.0	.0	.0	1.6	
	11-21	.0	.0	.0	.0	.1	.0	.3	.3	.0	.0	.7	
	22+	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1	
	TOT %	.0	.0	.3	.0	.3	.6	1.3	.3	.0	.1	2.9	
5 <10	0-3	.4	.2	.3	.2	.3	.0	.6	.3	.0	1.6	4.0	
	4-10	.7	.5	.9	.5	.4	2.9	2.7	1.4	.0	.0	10.0	
	11-21	.3	.0	.4	.0	.1	1.3	3.2	1.6	.0	.0	6.9	
	22+	.0	.0	.0	.0	.0	.1	.0	.3	.0	.0	.4	
	TOT %	1.5	.7	1.6	.8	.8	4.3	6.5	3.6	.0	1.6	21.3	
10+	0-3	.3	.6	1.0	1.0	.8	2.1	2.4	.8	.0	7.2	16.3	
	4-10	1.2	1.6	2.6	1.0	3.4	10.9	15.4	5.2	.0	.0	41.5	
	11-21	.1	.1	.0	.3	1.3	2.8	7.7	3.0	.0	.0	15.4	
	22+	.0	.0	.0	.0	.1	.0	1.2	.0	.0	.0	1.3	
	TOT %	1.7	2.4	3.7	2.4	5.7	15.8	26.8	9.0	.0	7.2	74.6	
	TOT OBS												680
	TOT PCT	3.1	3.1	5.5	3.2	7.2	20.8	34.6	13.1	.0	9.3	100.0	

PERIOD: (PRIMARY) 1948-1971;  
(OVER-ALL) 1911-1971

MAY

AREA 0022 S. E. PERSIAN GULF  
26.1N 54.7E

TABLE 10  
PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NN > 4/8) AND  
OCCURRENCE OF NN < 3/8 BY HOUR

HOUR (GMT)	000 149	050 299	100 599	150 999	200 1999	250 3499	300 4999	350 8499	400 7999	450 8000+	TOTAL	NN < 3/8 ANY NGT	TOTAL OBS
00003	1.9	.0	.0	.0	1.3	.0	.0	.0	.6	1.3	5.1	94.9	156
06009	.0	.0	.0	.6	.0	.6	.0	.0	.0	.0	1.9	98.1	157
12015	.0	.0	.0	.0	.7	.0	.0	.7	.0	.0	1.5	98.5	136
18021	.8	.0	.0	.0	.0	.0	.8	.8	.0	.0	2.4	97.6	124
TOT	4	0	0	1	3	1	2	2	1	2	16	557	572
PCT	.7	.0	.0	.2	.5	.2	.3	.3	.2	.3	2.6	97.2	100.0

TABLE 11

PERCENT FREQUENCY VS8Y (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.7	.0	.0	2.8	17.9	78.6	145
06009	.0	.0	.0	4.1	25.2	70.7	147
12015	.0	.0	.0	2.4	28.5	69.1	123
18021	.4	.0	.0	2.5	20.0	75.8	120
TOT	2	0	1	16	122	394	535
PCT	.4	.0	.2	3.0	22.6	75.6	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VS8Y (NM) AND/OR  
CEILING NGT (FEET, NN > 4/8) BY HOUR

HOUR (GMT)	<150 CEILING NGT	<600 CEILING NGT	<1000 CEILING NGT	1000+ AND 5+	NN < 3/8 ANY NGT	TOTAL OBS
00003	1.4	1.4	4.1	3.4	92.4	14
06009	.0	.0	4.8	1.4	93.9	147
12015	.0	.0	2.4	1.6	95.9	123
18021	.8	.8	4.2	.8	95.0	120
TOT	3	3	21	10	504	535
PCT	.6	.6	3.9	.9	94.2	100.0





PERIOD: (PRIMARY, 1948-1971  
(OVER-ALL) 1911-1971

MAY

AREA 0022 S. E. PERSIAN GULF  
26.1N 54.7E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)  
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP OIF	73	77	81	85	89	93	TOT	W	W0
	76	80	84	88	92	96	FOG	FOG	FOG
14/16	.0	.0	.0	.2	.0	.2	2	.0	.4
11/13	.0	.0	.0	.0	1.7	.6	12	.0	2.9
9/10	.0	.0	.0	1.0	1.0	1.0	15	.0	2.9
7/8	.0	.0	.6	2.5	1.9	.2	27	.2	5.0
6	.0	.0	.6	2.3	.2	.0	16	.0	3.1
5	.0	.0	2.3	2.5	1.0	.0	30	.2	5.4
4	.0	1.0	1.7	2.7	.6	.0	31	.4	5.8
3	.0	1.2	4.8	3.9	.2	.0	52	.2	9.8
2	.0	1.3	7.1	5.0	.0	.0	70	.0	12.9
1	.0	2.3	8.3	2.5	.2	.0	69	.0	13.3
0	.6	4.4	7.5	1.9	.2	.0	76	.0	14.6
-1	.8	2.1	3.9	1.5	.0	.0	43	.4	7.9
-2	.2	3.9	2.9	.4	.0	.0	38	.0	7.3
-3	.2	1.5	1.3	.0	.0	.0	16	.4	2.7
-4	.4	1.2	.4	.2	.0	.0	11	.2	1.9
-5	.0	.4	.4	.0	.0	.0	4	.0	.8
-6	.2	.4	.2	.0	.0	.0	4	.0	.8
-7/-8	.2	.2	.0	.0	.0	.0	2	.0	.4
-9/-10	.0	.2	.0	.0	.0	.0	1	.0	.2
TOTAL	13	104	218	138	36	10	519	13	506
PCT	2.5	20.0	43.0	26.6	6.9	1.9	100.0	2.5	97.5

PERIOD (PRIMARY)  
(OVER-ALL) 1963-1971

MAY

TABLE 18

AREA 0022 S. S. PERSIAN GULF  
26.3" 54.7E

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.7	.0	.0	.0	.0	1.7	.9	3.1	.0	.0	.0	.0	4.0
1-2	.9	.0	.0	.0	.0	.0	.9	.0	.9	.0	.0	.0	.0	.9
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-46	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.9	1.7	.0	.0	.0	.0	2.6	.9	4.9	.0	.0	.0	.0	5.0

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.9	.0	.0	.0	.0	.9	.0	.2	.0	.0	.0	.0	.2
1-2	.9	1.7	.0	.0	.0	.0	2.6	.0	.2	.0	.0	.0	.0	.2
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.9	3.5	.0	.0	.0	.0	4.5	.0	.2	.0	.0	.0	.0	.5

AREA 0022 S. E. PERSIAN GULF  
26.1N 54.7E

MAY

PERIOD: (PRIMARY)  
(OVER-ALL) 1963-1971

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S										SW										PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.9	5.7	.0	.0	.0	.0	7.5	.9	1.7	.9	.0	.0	.0	3.5	.9	1.7	.9	.0	.0	.0	3.5
1-2	.9	.7	.0	.0	.0	.0	1.7	.9	3.7	1.4	.0	.0	.0	8.0	.9	3.7	1.4	.0	.0	.0	8.0
3-4	.0	.9	.9	.0	.0	.0	1.9	.0	3.1	1.7	.0	.0	.0	4.7	.0	3.1	1.7	.0	.0	.0	4.7
5-6	.0	.0	2.1	.0	.0	.0	2.1	.0	.0	1.9	.0	.0	.0	1.9	.0	.0	1.9	.0	.0	.0	1.9
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.9	.0	.0	.9	.0	.0	.0	.0	.0	.0	.9
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.8	7.3	3.1	.0	.0	.0	13.2	1.9	10.4	5.9	.9	.0	.0	19.1	.0	10.4	5.9	.9	.0	.0	19.1

HGT	N										NW										PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	4.7	5.4	.0	.0	.0	.0	10.1	.9	3.1	.9	.0	.0	.0	4.0	.9	3.1	.9	.0	.0	.0	4.0
1-2	.0	8.7	4.2	.0	.0	.0	13.0	.9	3.8	.9	.0	.0	.0	5.7	.9	3.8	.9	.0	.0	.0	5.7
3-4	.0	4.5	5.9	.0	.0	.0	10.4	.0	2.8	1.9	.0	.0	.0	4.7	.0	2.8	1.9	.0	.0	.0	4.7
5-6	.0	1.9	2.6	.0	.0	.0	4.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	1.7	.0	.0	.0	1.7	.0	.0	.2	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.2
8-9	.0	.0	.9	.0	.0	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	4.7	20.5	15.3	.0	.0	.0	40.6	1.9	9.7	3.1	.0	.0	.0	14.6	.0	9.7	3.1	.0	.0	.0	14.6

PERIOD: (PRIMARY)  
(OVER-ALL) 1963-1971

MAY

AREA 0022, S. E. PERSIAN GULF  
26.1N 54.7E

TABLE 18 (CONT)

HGT	WIND SPEED (KTS) VS SEA HEIGHT (FT)							TOT OBS
	0-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	24.0	19.4	.8	.0	.0	.0	44.2	129
1-2	3.9	17.8	5.4	.0	.0	.0	27.1	
3-4	.0	10.1	8.5	.0	.0	.0	18.6	
5-6	.0	1.6	5.4	.0	.0	.0	7.0	
7	.0	.0	1.6	.8	.0	.0	2.3	
8-9	.0	.0	.8	.0	.0	.0	.8	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	17.9	48.8	22.5	.8	.0	.0	100.0	

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+ TOTAL	MEAN HGT	
<6	14.0	15.4	14.3	4.4	.5	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	216	2
6-7	.2	1.2	3.7	3.2	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	38	4
8-9	.0	.5	.0	.7	1.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	12	6
10-11	.0	.2	.2	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	5
12-13	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	10
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
16-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	136	1
INDET	25.3	4.7	2.5	.2	.5	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	407	2
TOTAL	161	105	84	35	15	4	2	2	0	0	0	0	0	0	0	0	0	0	0	100.0	
PCT	39.6	26.0	20.5	4.6	3.7	1.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		

JUNE

PERIOD: (PRIMARY) 1950-1970  
(OVER-ALL) 1910-1970

AREA 0022 S. E. PERSIAN GULF  
26.0N 54.5E

TABLE 1

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	RAIN SHR	ORZL PCPN	PRECIPITATION TYPE			HAIL PCPN	PCT OB TIME	TOTAL PCPN OBS	THDR LTNG	OTHER WEATHER PHENOMENA				TOTAL OBS
			ORZL PCPN	FRZG PCPN	SNOW PCPN	OTHER PCPN				FOG WD	SMOKE HAZE	DUST BLWG	NO SNOW	
N	.0	.0	.0	.0	.0	.0	.0	0	.0	.3	.1	.1	4.3	28
NE	.0	.0	.0	.0	.0	.0	.0	0	.0	.4	.1	.2	4.4	26
E	.0	.0	.0	.0	.0	.0	.0	0	.0	.2	.5	.1	4.1	27
SE	.0	.0	.0	.0	.0	.0	.0	0	.0	.2	1.6	.6	2.5	27
S	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	2.1	.9	7.0	55
SW	.0	.0	.0	.0	.0	.0	.0	0	.0	.3	2.2	1.2	15.0	103
W	.0	.0	.0	.0	.0	.0	.2	1	.0	.1	7.0	2.1	18.9	146
NW	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	1.7	1.7	10.2	78
VAR	.0	.0	.0	.0	.0	.0	.0	0	.0	.5	.0	.0	.0	0
CALM	.0	.0	.0	.0	.0	.0	.0	0	.0	.9	2.0	.7	7.8	61
TOT OBS	0	1	0	0	0	0	.0	1	.1	9	86	42	414	553
TOT PCT	.0	.2	.0	.0	.0	.0	.2	.0	.2	1.6	15.6	7.6	74.9	100.0

TABLE 2

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	RAIN SHR	ORZL PCPN	PRECIPITATION TYPE			HAIL PCPN	PCT OB TIME	TOTAL PCPN OBS	THDR LTNG	OTHER WEATHER PHENOMENA				TOTAL OBS
			ORZL PCPN	FRZG PCPN	SNOW PCPN	OTHER PCPN				FOG WD	SMOKE HAZE	DUST BLWG	NO SNOW	
0000	.0	.0	.0	.0	.0	.0	.7	1	.0	2.8	14.5	5.5	76.6	145
0600	.0	.0	.0	.0	.0	.0	.0	0	.0	1.9	18.5	5.7	73.9	157
1200	.0	.0	.0	.0	.0	.0	.0	0	.0	.6	15.8	7.0	76.6	134
1800	.0	.0	.0	.0	.0	.0	.0	0	.8	.8	13.2	10.9	74.4	129
TOT	0	1	0	0	0	0	.2	1	1	9	92	42	444	589
PCT	.0	.2	.0	.0	.0	.0	.2	.0	.2	1.5	15.6	7.1	75.4	100.0

JUNE

PERIOD: (PRIMARY) 1950-1970  
(OVER-ALL) 1910-1970

AREA 0022 S. E. PERSIAN GULF  
26.0N 54.5E

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)					48+	TOTAL OBS	PCT FREQ	MEAN SFD	HOUR (GMT)									
	0-3	4-10	11-21	22-23	24-47					00	03	06	09	12	15	18	21		
N	.6	2.5	1.4	.2	.0	.0	29	4.6	9.9	5.8	.0	4.2	.0	4.3	.0	5.2	11.7		
NE	1.1	2.8	.6	.0	.0	.0	29	4.7	7.5	2.7	7.1	5.6	6.3	7.5	.0	2.4	5.0		
E	1.7	2.7	.5	.0	.0	.0	30	4.8	5.8	5.9	7.1	7.7	4.5	5.1	.0	.4	3.2		
SE	1.4	3.1	.2	.0	.0	.0	31	5.1	6.0	6.1	8.9	8.6	2.3	3.8	.0	2.6	.0		
S	1.9	6.8	1.8	.0	.0	.0	65	10.4	7.4	15.3	12.5	9.3	6.8	8.6	.0	9.0	20.0		
SW	2.7	12.4	3.6	.0	.0	.0	123	19.7	8.0	13.5	.0	15.1	38.4	27.7	14.6	16.2	29.7		
W	3.3	16.7	6.1	.3	.0	.0	165	26.4	8.3	22.1	35.7	17.7	29.5	28.2	68.8	34.2	20.0		
NW	1.7	8.0	3.6	.3	.0	.0	85	13.6	9.0	15.6	21.4	15.4	4.5	7.8	8.3	18.8	6.7		
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
CALM	10.5	352	112	7	.0	.0	66	10.5	7.2	12.9	7.1	12.6	9.1	7.0	8.3	11.2	6.7		
TOT OBS	156	56.1	17.9	1.1	.0	.0	627	100.0		134	14	143	22	157	12	125	15		
TOT PCT	24.9									100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0		

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)										41+	TOTAL OBS	PCT FREQ	MEAN SPO	HOUR (GMT)									
	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPO	00	03	06	09	12	15	18	21								
N	1.4	2.7	.6	.0	.0	29	4.6	9.9	5.2	3.2	3.6	4.0	5.9											
NE	2.6	1.8	.2	.0	.0	29	4.7	7.5	3.1	3.1	5.8	7.0	2.7											
E	3.1	1.7	.0	.0	.0	30	4.8	5.8	6.0	6.0	7.3	4.7	.7											
SE	3.4	1.5	.2	.0	.0	31	5.1	6.0	6.4	6.4	7.7	3.6	2.3											
S	5.1	5.2	.0	.0	.0	63	10.4	7.4	15.0	15.0	8.9	8.0	10.2											
SW	7.6	11.6	.5	.0	.0	123	19.7	8.0	12.3	12.3	21.4	26.8	17.3											
W	12.0	12.8	1.6	.0	.0	165	26.4	8.3	23.4	23.4	19.2	31.1	32.7											
NW	5.1	6.8	1.7	.0	.0	85	13.6	9.0	16.2	16.2	13.9	7.8	17.5											
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0											
CALM	10.5	277	30	1	.0	66	10.5	7.2	12.4	12.4	12.1	7.1	10.7											
TOT OBS	319	44.2	4.8	.2	.0	627	100.0		153	153	165	169	140											
TOT PCT	50.9								100.0	100.0	100.0	100.0	100.0											

JUNE

PERIOD: (PRIMARY) 1950-1970  
(OVER-ALL) 1910-1970

AREA 0022 5. E. PERSIAN GULF  
26.0N 54.5E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47					
0000	12.4	13.1	59.5	14.4	.7	.0	.0	.0	6.6	100.0	153
0600	12.1	13.9	57.0	15.8	1.2	.0	.0	.0	6.6	100.0	165
1200	7.1	16.0	54.4	21.3	1.2	.0	.0	.0	7.7	100.0	169
1800	10.7	14.3	53.6	20.0	1.4	.0	.0	.0	7.7	100.0	140
TOT	66	90	352	112	7	0	0	0	7.2	100.0	627
PCT	10.5	14.4	56.1	17.9	1.1	.0	.0	.0			

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)  
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8-6	DBSCD	TOTAL OBS	MEAN	
							CLOUD COVER	
N	5.1	.2	.0	.0	.0	26	.5	
NE	4.6	.5	.2	.0	.0	26	.6	
E	4.6	.3	.4	.0	.0	27	1.1	
SE	4.9	.2	.4	.0	.0	27	.8	
S	5.1	.4	.4	.4	.4	51	.9	
SW	17.5	.6	1.2	.1	.1	96	.6	
W	24.8	.2	.3	.2	.2	126	.3	
NW	13.4	.2	.0	.0	.0	70	.4	
VAR	.0	.0	.0	.0	.0	0	.0	
CALM	9.0	.4	.0	.0	.0	48	.3	
TOT OBS	464	15	14	7	7	500	.5	
TOT PCT	92.8	3.0	2.8	1.4	1.4	100.0		

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)  
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WIND DIR	000	149	150	299	300	599	999	500	999	1000	2000	3500	5000	6500	8000+	NH <5/8	TOTAL
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	26
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	26
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	27
SE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	27
S	.4	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	51
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	96
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	126
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	70
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	48
TOT OBS	3	3	0	0	2	2	2	2	2	4	.8	.0	.0	.0	.0	.0	500
TOT PCT	.6	.6	.0	.0	.4	.4	.4	.4	.4	.8		.0	.0	.0	.0	.0	100.0



PERIOD: (PRIMARY) 1950-1970  
(OVER-ALL) 1910-1970

JUNE

AREA 0022 S. E. PERSIAN GULF  
26.0N 54.3E

TABLE 7  
CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE  
OF CEILING HEIGHT (NH > 4/8) AND VSBY (1/4)

CEILING (FEET)	VSBY (NH)									
	OR >10	OR >5	OR >2	OR >1	OR >1/2	OR >1/4	OR >50YD	OR >50	OR >50	OR >50
OR >4500	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
OR >3000	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
OR >2500	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
OR >2000	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
OR >1000	.0	.8	.8	.8	.8	.8	.8	.8	.8	.8
OR >600	.0	.8	.9	.9	.9	.9	.9	.9	.9	.9
OR >300	.0	.9	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
OR >150	.0	.9	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
OR >0	.0	1.1	1.5	1.7	1.7	1.7	1.9	1.9	1.9	1.9
TOTAL	0	6	8	9	9	10	10	10	10	10

TOTAL NUMBER OF OBS: 530 PCT FREQ NH < 5/8: 90.1

TABLE 7A  
PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	9	TOTAL
	0	1	2	3	4	5	6	7	8	9	OBS
84.0	10.1	2.0	1.3	1.3	.2	.7	.6	.0	.6	.6	545

JUNE

PERIOD: (PRIMARY) 1950-1970  
(OVER-ALL) 1910-1970

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF  
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
NO PCP	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2	
TOT %	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2	
1/2<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
NO PCP	.0	.0	.0	.0	.0	.3	.4	.4	.0	.0	1.3	
TOT %	.0	.0	.0	.0	.3	.3	.4	.4	.0	.0	1.3	
2<5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
NO PCP	.3	.4	.2	.6	.3	1.0	2.3	1.0	.0	1.6	7.6	
TOT %	.3	.4	.2	.6	.3	1.0	2.3	1.0	.0	1.6	7.6	
5<10	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.2	
NO PCP	1.2	1.0	1.7	1.5	3.5	7.1	8.3	4.0	.0	3.6	31.9	
TOT %	1.2	1.0	1.7	1.5	3.5	7.1	8.3	4.0	.0	3.6	32.1	
10+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
NO PCP	3.4	3.4	2.9	2.9	5.9	10.4	15.4	8.7	.0	5.8	58.8	
TOT %	3.4	3.4	2.9	2.9	5.9	10.4	15.4	8.7	.0	5.8	61.6	
TOT OBS	4.9	4.8	4.8	4.9	10.0	18.8	26.5	14.2	.0	11.1	100.0	591
TOT PCT												

PERIOD: (PRIMARY) 1970-1970  
(OVER-ALL) 1910-1970

JUNE

AREA 0022 S. E. PERSIAN GULF  
26.0N 54.5E

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED  
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5<10	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10+	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT OBS		4.6	4.9	4.8	5.2	10.5	19.2	26.7	13.3	.0	10.7	100.0	605

PERIOD: (PRIMARY) 1950-1970  
(OVER-ALL) 1910-1970

JUNE

AREA 0022 S. E. PERSIAN GULF  
26.0N 54.5E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND  
OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL ANY HGT	NH <5/8 ANY HGT	TOTAL OBS
00003	.7	.0	.7	.7	.7	.0	.0	.0	.0	.0	3.0	97.0	134
06009	.0	.0	.7	.0	1.4	.0	.0	.0	.0	.0	2.1	97.9	145
12015	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	148
18021	1.7	.0	.0	.9	.9	.0	.0	.0	.0	.0	3.4	96.6	116
TOT PCT	3 .6	0 .0	2 .4	2 .4	4 .7	0 .0	0 .0	0 .0	0 .0	0 .0	11 2.0	532 98.0	543 100.0

TABLE 11

PERCENT FREQUENCY VS8Y (NH) BY HOUR

HOUR (GMT)	<1/2 1/241	1/2 142	2/5 245	5/10 510	10+ 104	TOTAL OBS
00003	.0	.0	4.7	26.4	69.0	129
06009	.0	.0	1.4	29.8	61.7	141
12015	.0	.0	.7	32.4	57.9	145
18021	.9	.0	8.7	30.4	59.1	115
TOT PCT	1 .2	0 .0	4 .3	39 7.4	328 61.9	530 100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VS8Y (NH) AND/OR  
CEILING HGT (FEET, NH >4/8) BY HOUR

HOUR (GMT)	<150 <5000	<600 <1	<1000 <5	1000+ ANO5+	NH <5/8 ANO 5+	TOTAL OBS
00003	.8	1.6	6.2	.8	93.0	129
06009	.0	.7	8.5	1.4	90.1	141
12015	.0	.0	9.7	.0	90.3	145
18021	1.7	1.7	10.4	.9	88.7	115
TOT PCT	3 .6	5 .9	46 8.7	4 .8	480 90.6	530 100.0

JUNE

PERIOD: (PRIMARY) 1950-1970  
(OVER-ALL) 1910-1970

AREA 0022 S. 2. PERSIAN GULF  
26.04 54.5E

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP										
TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
100/104	.0	.0	.0	.0	.0	.2	.0	.0	1	.2
95/99	.0	.0	.0	.2	.7	1.0	.0	.0	8	2.0
90/94	.0	.0	.0	1.7	3.5	9.6	4.7	.5	81	20.0
85/89	.0	.0	.0	.5	3.0	15.8	29.1	12.1	245	60.5
80/84	.0	.0	.0	.0	1.0	2.0	6.2	6.9	65	16.0
75/79	.0	.0	.0	.0	.0	.2	.5	.5	5	1.2
TOTAL	.0	.0	.0	1.0	3.3	11.7	16.4	81	405	100.0
PCT	.0	.0	.0	2.5	8.1	28.9	40.5	20.0		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP										
	N	NE	E	SE	S	SW	W	NW	VAR	CALM
100/104	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2
95/99	.0	.1	.4	.2	.7	.1	.7	.0	.0	.2
90/94	2.2	1.1	1.9	1.3	1.7	3.7	5.0	1.0	.0	2.0
85/89	2.9	2.4	3.1	3.3	4.6	13.8	17.2	7.8	.0	5.4
80/84	.2	.0	.2	.0	2.3	3.0	4.9	3.6	.0	1.7
75/79	.1	.1	.0	.1	.4	.0	.2	.2	.0	.0
TOTAL	2.2	1.5	2.2	2.0	3.7	8.3	11.3	5.1	.0	3.9
PCT	5.4	3.8	5.6	4.9	9.3	20.6	28.1	12.7	.0	9.6

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR										
HOUR (GMT)	MAX	95%	90%	85%	80%	5%	1%	MIN	MEAN	TOTAL OBS
0003	94	91	88	85	80	78	78	84.8	161	161
0609	97	94	91	88	84	81	80	88.3	162	162
1215	100	98	95	90	85	82	80	89.5	161	161
1821	93	92	90	86	82	79	78	86.2	143	143
TOT	100	95	93	87	82	79	78	87.2	627	627

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR										
HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
0003	.0	1.9	4.8	22.9	39.0	31.4	84	105		105
0609	.0	1.8	4.5	23.7	50.5	13.5	81	111		111
1215	.0	3.5	15.7	46.1	22.1	8.7	77	115		115
1821	.0	2.0	6.0	17.0	44.0	31.0	84	100		100
TOT	0	10	34	127	171	89	81	431		431

PERIOD: (PRIMARY) 1950-1970  
(OVER-ALL) 1910-1970

JUNE

AREA 0022 S. E. PERSIAN GULF  
26.0N 54.5E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)  
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	77	81	85	89	93	TOY	M	FOG	MO
	80	84	88	92	96				FOG
11/13	.0	.0	.0	.0	.2	3	.0	.0	.4
9/10	.0	.0	.2	.2	1.0	9	.0	.0	1.6
7/8	.0	.0	.2	1.4	2.0	20	.0	.0	3.8
5	.0	.0	.5	2.6	1.2	22	.0	.0	4.4
4	.0	.0	.4	2.0	2.2	23	.0	.0	4.6
3	.0	.2	.6	3.0	.2	20	.0	.0	4.0
2	.2	.0	3.4	3.6	.6	38	.2	.2	7.4
1	.2	.8	6.4	3.6	.2	56	.2	.2	10.9
0	.2	3.0	10.5	2.2	.0	61	.0	.4	12.1
-1	.2	2.2	7.6	1.4	.0	80	.0	.4	15.5
-2	.4	3.2	5.4	.4	.0	37	.0	.0	11.3
-3	.2	2.0	3.0	.4	.0	47	.0	.0	9.3
-4	.0	2.4	1.4	.2	.0	28	.4	.4	5.2
-5	.0	.6	.8	.0	.0	20	.0	.0	4.0
-6	.0	.6	.4	.0	.0	10	.0	.0	2.0
-7/-8	.2	.2	.2	.0	.0	5	.0	.0	1.0
-11/-13	.2	.0	.0	.0	.0	3	.0	.0	.6
TOTAL	2.2	7.9	24.7	12.1	3.8	503	1	.0	.2
PCT	2.4	15.7	49.1	24.1	7.6	100.0	1.2	.6	4.94

PERIOD: (PRIMARY)  
(OVER-ALL) 1963-1970

JUNE

TABLE 18

AREA 0022 S.E. PERSIAN GULF  
26.0N 54.5E

PCT SPEED OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	1.7	1.7	.0	.0	.0	3.4	.0	1.9	.0	.0	.0	.0	1.9
3-4	.0	.0	.0	.0	.0	.0	.0	1.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-23	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
24-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.7	1.7	.0	.0	.0	3.4	1.0	1.9	.0	.0	.0	.0	2.9

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	1.0	.0	.0	.0	.0	1.0	1.9	1.9	.0	.0	.0	.0	3.9
3-4	.0	1.9	.0	.0	.0	.0	1.9	.0	3.6	.0	.0	.0	.0	3.9
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.9	.0	.0	.0	.0	2.9	1.9	5.6	.2	.0	.0	.0	7.8

PERIOD: (PRIMARY)  
(DUEB-ALL) 1963-1970

JUNE

TABLE 18

AREA 0022 S. E. PERSIAN GULF  
26.0N 54.5E

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.5	.0	.0	.0	.0	1.5	1.9	4.6	.0	.0	.0	.0	6.6
1-2	1.0	7.3	2.7	.0	.0	.0	10.9	.0	13.8	2.4	.0	.0	.0	16.3
3-4	.0	1.0	1.7	.0	.0	.0	2.7	.0	2.1	1.5	.0	.0	.0	3.6
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.0	9.7	4.4	.0	.0	.0	15.0	1.9	20.6	3.9	.0	.0	.0	26.5

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.9	2.7	.0	.0	.0	.0	4.6	.0	1.9	.0	.0	.0	.0	1.9
1-2	1.0	10.9	4.1	.0	.0	.0	16.0	.0	3.4	.5	.0	.0	.0	3.3
3-4	.0	1.7	4.6	1.0	.0	.0	7.3	.0	2.9	1.9	.0	.0	.0	4.9
5-6	.0	.0	1.0	.0	.0	.0	1.0	.0	1.0	1.0	.0	.0	.0	1.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.9	15.3	9.7	1.0	.0	.0	28.9	.0	9.2	3.4	.0	.0	.0	12.6



PERIOD: (PRIMARY)  
(OVER-ALL: 1963-1970

JUNE

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26.0N 54.5E

TABLE 18 (CONT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT DBS
<1	10.0	14.8	.0	.0	.0	.0	32.8	
1-2	2.5	34.4	9.8	.0	.0	.0	45.7	
3-4	.8	8.2	8.2	.8	.0	.0	18.0	
5-6	.0	.8	.0	.0	.0	.0	1.6	
7	.0	.0	.8	.0	.0	.0	.8	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	21.3	58.2	19.7	.8	.0	.0	100.0	122

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)																		87+ TOTAL	MEAN HGT
	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86		
<6	13.8	32.2	15.5	2.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	268
6-7	.0	1.9	3.1	1.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	27
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	10
12-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
INDET	24.1	3.3	1.4	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	123
TOTAL	159	157	84	15	3	0	1	0	0	0	0	0	0	0	0	0	0	0	0	419
PCT	37.9	37.5	20.0	3.6	.7	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.0

PERIOD: (PRIMARY) 1947-1970  
(OVER-ALL) 1910-1970

JULY

AREA 0022 S. E. PERSIAN GULF  
26.1N 54.7E

TABLE 1  
PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	RAIN SHWR	RAIN SHWR	DFZL PCPN	PRECIPITATION TYPE			HAIL PCPN	PCT FREQ PCPN AT OBS TIME	TOTAL PCPN OBS	THOR LTNG	OTHER WEATHER PHENOMENA					TOTAL OBS
				FRZG PCPN	SNOW PCPN	OTHER PCPN					FGG WD	SMOKE HAZE	DUST BLNG	NO BLNG	NO SIG	
N	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.2	.2	.2	3.2	3.2	14
NE	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	1.6	.3	6.6	6.6	33
E	.0	.0	.0	.0	.0	.0	.0	.0	0	.2	.1	3.3	.3	9.3	9.3	58
SE	.0	.0	.0	.0	.0	.0	.0	.0	0	.2	.1	1.4	.5	4.1	4.1	27
S	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.5	2.1	.2	6.2	6.2	37
SW	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.5	2.7	.5	9.7	9.7	55
W	.0	.0	.0	.0	.0	.0	.0	.0	0	.1	.2	4.3	1.5	15.8	15.8	91
NW	.2	.0	.0	.0	.0	.0	.0	.2	1	.6	.2	1.0	.5	5.0	5.0	20
VAR	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.2	4.8	1.0	10.1	10.1	67
TOT OBS	1	.0	.0	.0	.0	.0	.0	.0	1	.5	.9	89	.22	292	292	417
TOT PCT	.2	.0	.0	.0	.0	.0	.0	.2		1.2	2.2	21.3	5.3	70.0	70.0	100.0

TABLE 2  
PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	RAIN SHWR	RAIN SHWR	OR'L PCPN	PRECIPITATION TYPE			HAIL PCPN	PCT FREQ PCPN AT OBS TIME	TOTAL PCPN OBS	THOR LTNG	OTHER WEATHER PHENOMENA					TOTAL OBS
				FRZG PCPN	SNOW PCPN	OTHER PCPN					FGG WD	SMOKE HAZE	DUST BLNG	NO BLNG	NO SIG	
0003	.8	.0	.0	.0	.0	.0	.0	.8	1	1.7	1.7	21.0	2.5	73.1	73.1	119
0609	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	4.1	22.8	4.9	68.3	68.3	123
12015	.0	.0	.0	.0	.0	.0	.0	.0	0	.9	.9	24.2	7.2	66.7	66.7	111
18021	.0	.0	.0	.0	.0	.0	.0	.0	0	2.0	1.0	18.6	5.9	72.5	72.5	102
TOT	1	.0	.0	.0	.0	.0	.0	.2	1	5	9	99	23	319	319	455
PCT	.2	.0	.0	.0	.0	.0	.0	.2		1.1	2.0	21.8	5.1	70.1	70.1	100.0

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26.1N 54.7E

JULY

PERIOD: (PRIMARY) 1947-1970  
(OVER-ALL) 1910-1970

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)					48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47					00	03	06	09	12	15	18	21
N	1.2	2.5	.1	.0	.0	.0	20	3.5	5.4	3.2	5.0	1.7	4.0	4.5	3.6	5.6	4.3
NE	1.2	5.2	1.1	.0	.0	.0	39	7.5	7.1	7.1	20.0	15.9	12.0	6.3	1.9	1.3	2.2
E	2.6	8.0	2.2	.0	.0	.0	67	12.7	6.9	12.5	35.0	21.4	24.0	8.0	6.5	8.9	2.2
SE	.9	4.4	.3	.0	.0	.0	29	5.6	6.7	5.6	.0	7.5	8.0	5.4	6.5	4.1	4.3
S	2.9	5.3	.7	.0	.0	.0	45	8.9	5.9	7.9	10.0	10.8	.0	13.4	9.3	5.9	4.3
SW	2.0	11.5	2.1	.0	.0	.0	82	15.7	7.2	14.3	15.0	12.5	17.0	23.2	20.4	11.5	13.0
W	2.9	10.3	3.4	.1	.0	.0	11	22.8	7.1	20.2	5.0	12.0	13.0	25.0	28.5	33.2	41.3
NW	1.6	5.4	1.0	.0	.0	.0	42	8.0	6.4	4.6	10.0	6.7	6.0	3.6	13.0	13.3	19.6
VAR	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	14.7	.0	.0	.0	.0	.0	77	14.7	.0	24.6	.0	9.6	16.0	10.7	7.4	10.3	8.7
TOT OBS	158	308	58	1	0	0	525		5.8	128	10	104	25	112	27	109	23
TOT PCT	30.1	58.7	11.0	.2	.0	.0	100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-6	7-16	17-27	28-40	00					03	06	09	12	15	18	21
N	2.7	1.1	.0	.0	.0	.0	20	3.9	5.4	3.3	8.1	3.1	4.7	5.4		
NE	3.8	3.8	.0	.0	.0	.0	39	7.5	7.1	14.2	15.1	15.1	5.4	1.4	1.4	
E	7.5	5.1	.2	.0	.0	.0	67	12.9	6.9	14.2	21.9	21.9	7.7	7.6	7.6	
SE	2.7	3.0	.0	.0	.0	.0	29	5.6	6.7	5.1	7.6	7.6	5.6	4.1	4.1	
S	5.6	3.1	.0	.0	.0	.0	46	8.9	5.9	5.1	3.7	3.7	12.6	5.6	5.6	
SW	7.9	7.6	.2	.0	.0	.0	82	15.7	7.2	14.3	13.4	13.4	22.7	11.8	11.8	
W	13.1	9.1	.6	.0	.0	.0	119	22.8	7.1	19.1	12.2	12.2	25.9	34.7	34.7	
NW	4.8	3.1	.1	.0	.0	.0	42	8.0	6.4	5.0	8.1	8.1	5.4	14.5	14.5	
VAR	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	14.7	.0	.0	.0	.0	.0	77	14.7	.0	22.8	10.4	10.4	10.1	14.9	14.9	
TOT OBS	329	189	7	0	0	0	525		5.8	136	129	129	139	121	121	
TOT PCT	62.7	36.0	1.3	.0	.0	.0	100.0			100.0	100.0	100.0	100.0	100.0	100.0	

PERIOD: (PRIMARY) 1967-1970  
(OVER-ALL) 1910-1970

JULY

AREA 002 S. E. PERSIAN GULF  
26.1N 54.7E

TABLE 4

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47	48+				
00003	22.8	15.4	53.7	7.4	.7	.0	.0	.0	5.1	100.0	136
00009	10.9	16.3	62.0	10.9	.0	.0	.0	.0	6.0	100.0	129
12015	10.1	17.3	61.2	11.2	.0	.0	.0	.0	5.2	100.0	139
18021	14.9	12.4	57.9	14.9	.0	.0	.0	.0	6.0	100.0	121
TOT	77	51	308	38	1	.0	.0	.0	5.8		525
PCT	14.7	15.4	58.7	11.0	.2	.0	.0	.0		100.0	

TABLE 5

WIND DIR	PCT FREQ OF TOTAL CLOUD AMOUNT (HEIGHTS) BY WIND DIRECTION							TOTAL OBS	MEAN CLOUD COVER
	0-2	3-4	5-7	8-6	8-6	8-6	8-6		
N	3.6	.0	.0	.0	.0	.0	.0	13	.0
NE	7.1	.6	.6	1.3	.3	.3	.3	33	1.7
E	10.4	1.3	.8	1.0	.0	.0	.0	48	1.6
SE	6.4	.1	1.3	.0	.0	.0	.0	20	1.6
S	7.2	.3	1.1	.2	.3	.3	.3	31	1.4
SW	12.0	.6	.5	.2	.4	.4	.4	47	.6
W	20.0	.7	.8	.1	.1	.1	.1	77	.5
NW	6.3	.7	.6	.6	.6	.6	.6	29	1.5
VAR	.0	.0	.0	.0	.0	.0	.0	0	.0
CALM	13.2	.3	.8	1.4	.0	.0	.0	56	1.3
TOT OBS	301	16	23	17	357	1.1	1.1		
TOT PCT	84.3	4.5	6.4	4.8	100.0				

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH > 4/8) AND OCCURRENCE UP NH < 5/8 BY WIND DIRECTION												
	000	150	300	450	600	750	900	1050	1200	1350	1500	TOTAL
	149	299	449	599	749	899	1049	1199	1349	1499	1649	Obs
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	13
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	33
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	48
SE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	20
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	31
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	47
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	77
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	29
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	56
TOT	2	2	0	0	0	0	0	0	0	0	0	357
PCT	.6	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0

PERIOD: (PRIMARY) 1947-1970  
(OVER-ALL) 1913-1970

JULY

AREA 0022 S. E. PERSIAN GULF  
26.1N 54.7E

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE  
OF CEILING HEIGHT (NH >4/6) AND VSBY (NH)

CEILING (FEET)	OR >10	OR >5	OR >2	VSBY (NH) OR >1	OR >1/2	OR >1/4	OR >50%	OR >0
OR >6500	.5	1.0	1.8	2.1	2.1	2.1	2.1	2.1
OR >5000	.8	1.8	2.6	2.8	2.8	2.8	2.8	2.8
OR >3500	.8	2.6	3.3	3.6	3.6	3.6	3.6	3.6
OR >2000	1.3	3.1	3.9	4.1	4.1	4.1	4.1	4.1
OR >1000	1.3	3.1	3.9	4.1	4.1	4.1	4.1	4.1
OR >600	1.3	3.1	4.1	4.4	4.4	4.4	4.4	4.4
OR >300	1.3	3.1	4.1	4.4	4.4	4.4	4.4	4.4
OR >150	1.3	3.1	4.1	4.4	4.4	4.4	4.4	4.4
OR >0	1.3	3.3	4.4	4.6	4.6	4.6	4.6	4.6
TOTAL	5	13	17	18	18	18	18	18

TOTAL NUMBER OF OBS: 389

PCT FREQ NH <5/8: 95.4

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	CLOUDS	TOTAL OBS
79.9	7.4	3.7	1.5	1.0	1.5	.2	2.0	1.7	1.0	403	

PERIOD: (PRIMARY) 1947-1970  
(OVER-ALL) 1910-1973

JULY

AREA 0022 S. E. PERSIAN GULF  
26.1N 54.7E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF  
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (MI)	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
NO PCP	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.2	
TOT %	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.2	
PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1 NO PCP	.2	.0	.0	.0	.0	.1	.2	.0	.0	.0	.5	
TOT %	.2	.0	.0	.0	.0	.1	.2	.0	.0	.0	.5	
PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2 NO PCP	.0	.0	.5	.0	.2	.5	.7	.0	.0	.0	1.9	
TOT %	.0	.0	.5	.0	.2	.5	.7	.0	.0	.0	1.9	
PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
2<5 NO P-P	.0	.2	.6	.6	1.0	.6	2.2	.2	.0	1.4	7.0	
TOT %	.0	.2	.6	.6	1.0	.6	2.2	.2	.0	1.4	7.0	
PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
5<10 NO PCP	1.1	2.8	6.7	2.9	4.0	5.6	8.1	2.9	.0	7.5	41.6	
TOT %	1.1	2.8	6.7	2.9	4.0	5.6	8.1	2.9	.0	7.5	41.6	
PCP	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2	
10+ NO PCP	2.5	5.1	5.9	3.0	3.7	6.6	10.8	4.0	.0	7.0	48.6	
TOT %	2.5	5.1	5.9	3.0	3.7	6.6	10.8	4.3	.0	7.0	48.6	
TOT OBS	3.9	8.1	13.9	6.5	9.0	13.3	21.9	7.4	.0	15.9	100.0	416
TOT PCT												

PERIOD: (PRIMARY) 1947-1970  
(OVER-ALL) 1910-1970

JULY

AREA 0022 S. E. PERSIAN GULF  
26.1N 54.7E

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED  
WITH VARYING VALUES OF VISIBILITY

WSBY (NM)	SPO KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.2
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT *	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.2
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.2	.0	.0	.0	.0	.1	.2	.0	.0	.0	.4
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT *	.2	.0	.0	.0	.0	.1	.2	.0	.0	.0	.4
1<2	0-3	.0	.0	.3	.1	.0	.0	.0	.0	.0	.0	.4
	4-10	.0	.0	.2	.2	.2	.4	.6	.0	.0	.0	1.6
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT *	.0	.0	.5	.3	.2	.4	.6	.0	.0	.0	2.0
2<5	0-3	.2	.0	.0	.0	.4	.0	.2	.0	.0	1.4	2.2
	4-10	.1	.2	.4	.2	.4	.6	1.5	.3	.0	.0	3.6
	11-21	.0	.0	.3	.1	.1	.1	.4	.0	.0	.0	1.2
	TOT *	.3	.2	.7	.3	.9	.7	2.1	.3	.0	1.4	7.1
5<10	0-3	.6	.3	.7	.3	.8	.8	1.5	.8	.0	6.7	12.6
	4-10	.4	1.7	4.0	2.3	2.8	3.9	6.6	1.8	.0	.0	23.5
	11-21	.0	.6	1.0	.0	.3	1.1	.5	.2	.0	.0	3.6
	TOT *	1.0	2.6	5.9	2.5	3.8	5.9	8.5	2.8	.0	.0	39.7
10+	0-3	.5	1.0	1.4	.6	1.5	1.2	1.4	.9	.0	6.5	15.0
	4-10	2.0	3.5	3.6	1.9	2.0	6.6	8.4	2.8	.0	.0	30.8
	11-21	.1	.5	1.0	.1	.2	.6	1.7	.8	.0	.0	4.7
	TOT *	2.6	5.0	6.0	2.5	3.6	8.2	11.6	4.5	.0	6.5	50.5
TOT OBS		4.1	7.8	13.2	5.9	8.5	15.3	22.9	7.6	.0	14.5	100.0
TOT PCT												494

PERIOD: (PRIMARY) 1947-1970  
(OVER-ALL) 1910-1970

JULY

AREA 0022 S. E. PERSIAN GULF  
25.1N 54.7E

TABLE 10  
PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH > 4/8) AND  
OCCURRENCE OF NH < 5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	5500 7999	8000+	TOTAL ANY HGT	NH < 5/8 TOTAL
00003	.0	.0	.0	1.0	.0	1.0	1.0	1.0	.0	1.0	4.8	95.2
05609	.9	.0	.0	.0	.0	.0	1.9	1.9	.0	3.8	8.5	91.5
12315	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.1	2.1	57.9
18621	17.1	.0	.0	.0	.0	1.1	.0	.0	.0	1.1	3.2	96.7
TOT	.2	0	0	1	0	2	3	3	0	8	19	377
PCT	.5	.0	.0	.3	.0	.5	.8	.8	.0	2.0	4.8	95.2

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	< 1/2	1/2 < 1	1 < 2	2 < 5	5 < 10	10+	TOTAL OBS
00003	.0	.0	1.9	3.8	34.3	60.0	105
05609	.0	.0	1.0	5.6	49.0	44.2	104
12315	.0	.0	1.1	6.5	44.1	48.4	93
18621	.0	.0	1.1	4.5	36.0	58.4	89
TOT	0	0	5	20	160	206	391
PCT	.0	.0	1.3	5.1	40.9	52.7	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR  
CEILING HGT (FEET, NH > 4/8) BY HOUR

HOUR (GMT)	< 150 < 5000	< 600 < 1	< 1000 < 5	1000+ AND 5+	NH < 5/8 AND 5+	TOTAL OBS
00003	1.0	1.0	5.7	2.9	91.4	105
05609	1.0	1.0	6.7	5.8	87.5	104
12315	.0	.0	7.5	1.1	91.4	93
18621	1.1	1.1	6.7	2.2	91.0	89
TOT	3	3	26	12	353	391
PCT	.8	.8	6.6	3.1	90.3	100.0



JULY

PERIOD: (PRIMARY) 1947-1970  
(OVER-ALL) 1910-1970

AREA 0022 S. E. PERSIAN GULF  
26.1N 54.7E

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP											
TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL DBS	PCT FREQ	
95/99	.0	.0	.0	.3	1.3	2.8	2.8	.6	.0	25	7.9
90/84	.0	.0	.0	.0	1.3	6.0	20.4	22.6	3.1	170	53.5
85/59	.0	.0	.0	.0	.0	.6	4.7	20.4	12.3	121	38.1
80/84	.0	.0	.0	.0	.0	.0	.3	.3	.0	2	.6
TOTAL	.0	.0	.0	1	8	30	90	140	49	318	100.0
PCT	.0	.0	.3	2.5	9.4	28.3	44.0	15.4			

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP											
	N	NE	E	SE	S	SW	W	NW	VAR	CALM	
95/99	.3	.9	1.1	.5	1.0	.6	1.3	.6	.0	1.6	
90/84	2.6	6.7	9.7	1.7	3.7	8.1	10.6	5.1	.0	5.0	
85/59	1.0	1.3	3.2	3.0	3.9	6.5	8.2	2.7	.0	8.2	
80/84	.0	.0	.0	.0	.0	.0	.3	.0	.0	.3	
TOTAL	12	28	44	16	27	48	64	26	0	48	
PCT	4.2	9.0	14.0	5.2	8.6	15.2	20.4	8.4	.0	15.1	

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR											
HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL DBS		
0000	95	93	71	89	85	84	84	88.6	144		
0600	99	97	85	91	87	85	84	91.3	144		
1200	99	97	97	92	88	86	85	92.0	136		
1800	95	94	93	90	86	85	84	89.6	125		
TOT	99	97	95	90	86	85	84	90.4	549		

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR											
HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL DBS	
0000	.0	.0	.0	.0	2.2	11.0	52.7	34.1	87	31	
0600	.0	.0	.0	.0	10.8	31.2	46.2	8.6	79	73	
1200	.0	.0	.0	.0	22.9	48.2	21.7	1.2	73	87	
1800	.0	.0	.0	.0	5.0	23.8	53.0	15.0	83	87	
TOT	0	9	25	98	159	52	80	2.7			

PERIOD: (PRIMARY) 1947-1970  
(OVER-ALL) 1910-1970

JULY

AREA 002, S.E. PERSIAN GULF  
26.1N 54.7E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)  
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	81	85	89	93	TOT	M	W	MO
	84	88	92	96		FOG	FOG	FOG
11/13	.0	.0	.0	.0	2	.0	.0	.3
9/10	.0	.0	.3	.3	6	.0	.0	1.1
7/8	.0	.0	.3	1.1	13	.0	.0	2.4
6	.0	.0	.0	1.6	8	.0	.0	1.9
5	.0	.3	1.9	2.4	17	.3	.3	4.3
4	.0	.5	2.9	2.4	22	.0	.0	5.9
3	.0	.0	4.0	4.5	22	.0	.0	8.5
2	.0	.8	6.9	2.7	39	.8	.8	9.6
1	.0	2.1	11.7	.8	55	.3	.3	14.4
0	.0	3.2	13.9	1.1	68	.5	.5	17.6
-1	.0	5.1	8.0	.0	49	.0	.0	13.1
-2	.0	2.9	5.1	.0	30	.0	.0	8.0
-3	.0	1.6	1.9	.0	13	.0	.0	3.5
-4	.3	3.5	.0	.0	14	.3	.3	3.5
-5	.0	.8	.0	.0	3	.0	.0	.8
-6	.0	.8	.0	.0	3	.0	.0	.8
-7/-8	.0	.3	.0	.0	1	.0	.0	.3
TOTAL	1	82	213	63	375	8	8	359
PCT	.3	21.9	56.8	16.8	100.0	2.1	2.1	95.7

PERIOD: (PRIMARY)  
(OVER-ALL) 1963-1970

JULY

TABLE 18

AREA 0022 S. E. PERSIAN GULF  
26.1N 54.7E

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	3.9	.0	.0	.0	.0	3.9	.0	2.3	.0	.0	.0	.0	2.3
1-2	.0	1.0	.0	.0	.0	.0	1.0	.0	4.7	.0	.0	.0	.0	4.7
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.1	.0	.0	.0	2.1
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-50	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	4.9	.0	.0	.0	.0	4.9	.0	7.0	2.1	.0	.0	.0	9.1

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	4.7	.0	.0	.0	.0	4.7	.0	1.6	.0	.0	.0	.0	2.6
1-2	.0	5.7	.0	.0	.0	.0	5.7	.0	1.0	.0	.0	.0	.0	2.1
3-4	.0	1.0	.0	.0	.0	.0	1.0	.0	1.0	.0	.0	.0	.0	1.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-50	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	3.1	11.5	1.0	.0	.0	.0	15.6	1.0	1.6	1.0	.0	.0	.0	5.7

PERIOD: (PRIMARY)  
(OVER-ALL) 1963-1970

JULY

AREA 0022 S. E. PERSIAN GULF  
6.1° 24.7°E

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	3.9	1.8	.8	.0	.0	.0	6.9	1.3	5.5	.3	.0	.0	.0	7.0
1-2	.0	1.6	.0	.0	.0	.0	1.6	1.0	12.5	.3	.0	.0	.0	13.8
3-4	.0	.8	.0	.0	.0	.0	.8	.0	.3	2.1	.0	.0	.0	2.3
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-50	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	3.9	4.2	.8	.0	.0	.0	8.9	2.3	18.2	2.6	.0	.0	.0	23.2

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.0	2.9	.0	.0	.0	.0	3.9	3.1	.3	1.0	.0	.0	.0	4.4
1-2	1.0	8.1	2.9	.0	.0	.0	12.0	.0	6.0	2.1	.0	.0	.0	8.1
3-4	.0	2.1	.0	.0	.0	.0	2.1	.0	.0	.0	.0	.0	.0	1.0
5-6	.0	1.0	.0	.0	.0	.0	1.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.1	14.1	2.9	.0	.0	.0	19.0	3.1	6.3	4.2	.0	.0	.0	13.5

PERIOD: (PRIMARY)  
(OVER-ALL) 1963-1970

JULY

AREA 0022 S. E. PERSIAN GULF  
26.1N 54.7E

TABLE 18 (CONT)

WIND SPEED (KTS) VS SEA HEIGHT (FT)								TUT SSS
HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	25.4	19.3	1.8	.0	.0	.0	46.0	
1-2	3.5	34.2	5.3	.0	.0	.0	43.0	
3-4	.0	4.4	5.3	.0	.0	.0	9.6	
5-6	.0	.9	.0	.0	.0	.0	.9	
7	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	28.9	58.8	12.3	.0	.0	.0	100.0	114

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+ TOTAL	MEAN HGT
<6	14.0	27.6	10.3	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	159
6-7	.7	1.7	2.3	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	17
8-9	.6	.7	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4
10-11	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2
12-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
16-17	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
19-20	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
22-23	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
25-26	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
32-33	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
40-41	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
48-49	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
60-61	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
70-71	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
86-87	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
TOTAL	143	106	41	9	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	301
PCT	47.5	35.2	13.6	3.0	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0

PERIOD: (PRIMARY) 1948-1970  
(OVER-ALL) 1907-1970

AUGUST

AREA 0022 5. E. PERSIAN GULF  
6.2N 54.7E

TABLE 1

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	RAIN	RAIN SHWR	DRZL	PRECIPITATION TYPE			HAIL	PCT FREQ PCPN AT OBS TIME	TOTAL PCPN OBS	THDR LTNG	OTHER WEATHER PHENOMENA					TOTAL OBS
				FRZG PCPN	SNOW PCPN	OTHER PCPN					FOG NO	SMOKE NO	DUST BLWG	DUST FLWG	NO WEA	
N	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	2.3	14
NE	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.2	1.4	.0	.0	1.9	41
E	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.2	3.0	.0	.0	12.3	67
SE	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	1.6	.0	.0	8.0	41
S	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.8	.2	.0	5.7	29
SW	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	2.3	.3	.0	10.5	57
W	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.5	2.3	1.0	.0	14.8	81
NW	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	1.1	.2	.0	5.5	29
VAR	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.2	1.4	.7	.0	14.3	72
TOT OBS	0	0	0	0	0	0	0	0	0	0	5	51	11	358	435	435
TOT PCT	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	1.1	14.0	2.5	82.3	100.0	100.0

TABLE 2

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	RAIN	RAIN SHWR	DRZL	PRECIPITATION TYPE			HAIL	PCT FREQ PCPN AT OBS TIME	TOTAL PCPN OBS	THDR LTNG	OTHER WEATHER PHENOMENA					TOTAL OBS
				FRZG PCPN	SNOW PCPN	OTHER PCPN					FOG NO	SMOKE NO	DUST BLWG	DUST FLWG	NO WEA	
00003	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	16.2	1.7	.0	82.1	117
06009	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	4.1	13.0	1.6	.0	81.3	123
12015	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	10.6	1.8	.0	81.4	113
18021	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	9.4	5.1	.0	83.5	117
TOT	0	0	0	0	0	0	0	0	0	0	5	65	12	308	470	470
PCT	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	1.1	13.8	2.6	82.6	100.0	100.0

PERIOD: (PRIMARY) 1948-1970  
(OVER-ALL) 1907-1970

AUGUST

AREA 0022 S. E. PERSIAN GULF  
26.2N 54.7E

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)										MEAN (GMT)				
	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15
N	1.1	2.3	.2	.0	.0	.0	21	3.6	5.4	2.5	5.3	5.1	1.5	2.1	3.0
NE	1.7	6.8	1.1	.0	.0	.0	55	9.7	6.7	11.3	34.2	17.6	18.2	13.4	3.7
E	3.6	9.0	1.5	.2	.0	.0	62	14.3	6.8	16.0	21.1	21.7	19.7	4.0	3.4
SE	1.5	6.3	1.3	.0	.0	.0	52	9.1	6.4	11.0	2.6	12.7	9.1	8.1	6.5
S	1.1	5.0	.8	.0	.0	.0	39	6.8	7.0	12.1	5.3	6.3	4.5	6.4	2.9
SW	1.6	9.7	2.6	.0	.0	.0	77	13.4	7.5	7.3	15.8	7.5	10.6	8.0	12.3
W	3.6	13.5	2.5	.0	.0	.0	113	19.7	6.9	11.3	7.9	12.5	25.8	16.1	33.5
NW	2.2	5.8	1.3	.0	.0	.0	53	9.2	6.3	10.2	7.9	3.1	4.5	5.9	13.8
VAR	.0	.0	.0	.0	.0	.0	0	.0	.0	18.3	.0	13.4	6.1	16.1	16.4
CALM	14.2	33.4	65	1	0	0	82	14.2	5.8	120	19	112	33	118	25
TOT OBS	177	379	113	.2	.0	.0	577	100.0		100.0	100.0	100.0	100.0	100.0	100.0
TOT PCT	30.7	57.9	11.3	.2	.0	.0	577	100.0		100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)										PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+	TOTAL OBS	41+	TOTAL OBS	41+	TOTAL OBS			00	03	06	09	12
N	2.0	1.0	.0	.0	.0	21	.0	21	3.6	5.4	3.6	5.4	2.9	14.4	4.3	2.8	4.5
NE	5.5	4.0	.1	.0	.0	55	.0	55	9.7	6.7	9.7	6.7	16.7	16.7	17.8	2.8	4.0
E	7.9	5.9	.3	.0	.0	62	.0	62	14.3	6.8	14.3	6.8	16.7	16.7	21.2	11.7	7.7
SE	5.9	3.2	.0	.0	.0	52	.0	52	9.1	6.4	9.1	6.4	9.9	9.9	11.9	6.6	8.0
S	3.3	3.3	.0	.0	.0	39	.0	39	6.8	7.0	6.8	7.0	11.2	11.2	5.9	7.3	3.3
SW	7.0	6.0	.4	.0	.0	77	.0	77	13.4	7.5	13.4	7.5	8.3	8.3	8.3	25.0	11.8
W	10.7	8.5	.4	.0	.0	113	.0	113	19.7	6.9	19.7	6.9	10.8	10.8	19.5	21.0	30.7
NW	6.1	3.0	.1	.0	.0	53	.0	53	9.2	6.3	9.2	6.3	9.9	9.9	3.4	8.0	15.3
VAR	.0	.0	.0	.0	.0	0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	14.2	33.2	7	1	0	82	.0	82	14.2	5.8	.0	.0	15.8	15.8	11.7	14.7	14.7
TOT OBS	367	332	1.2	.2	.0	577	.0	577	100.0		100.0		139	139	145	143	150
TOT PCT	63.6	35.0	1.2	.2	.0	577	.0	577	100.0		100.0		100.0	100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1948-1970  
(OVER-ALL) 1907-1970

AUGUST

AREA 0022 S. E. PERSIAN GULF  
26.2N 54.7E

TABLE 4

HOUR	CALM	PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GHT)					PCT FREQ	TOTAL OBS
		1-3	4-10	11-21	22-33	34-47	48+	
0003	15.8	15.1	54.0	15.1	.0	.0	.0	139
0609	11.7	20.7	59.3	8.3	.0	.0	.0	145
1215	14.7	14.7	60.8	9.8	.0	.0	.0	243
1821	14.7	15.3	57.3	12.0	.7	.0	.0	150
TOT	62	95	324	65	1	0	0	577
PCT	14.2	16.5	57.9	11.3	.2	.0	.0	100.0

TABLE 5

WIND DIR	PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION						TOTAL OBS	MEAN CLOUD COVER
	0-2	3-4	5-7	8-6	OBSCD	08S		
N	2.9	.3	.1	.0	.0	12	.9	
NE	8.2	.5	.1	.3	.3	34	.7	
E	13.1	1.9	.8	.0	.0	61	1.0	
SE	7.0	.3	1.3	.0	.0	32	1.1	
S	5.0	.5	.9	.5	.5	26	1.9	
SW	11.0	.9	.7	.3	.3	51	1.0	
W	16.8	.3	1.0	.3	.0	69	.7	
NW	3.0	1.0	.3	.0	.0	26	1.0	
VAR	.0	.0	.0	.0	.0	0	.0	
CALM	15.5	1.3	.8	.0	.0	67	.6	
TOT OBS	326	26	23	6	351		.9	
TOT PCT	85.3	6.8	6.0	1.6	100.0			

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT) NH 24/8 AND OCCURRENCE OF NH 45/8 BY WIND DIRECTION																									
WIND DIR	000			600			1000			2000			3500			5000			8000+			NH 45/8			TOTAL OBS
	149	299	599	149	299	599	149	299	599	149	299	599	149	299	599	149	299	599	149	299	599	149	299	599	
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
SE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT OBS	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	



PERIOD: (PRIMARY) 1949-1970  
(COVER-ALL) 1907-1970

AUGUST

AREA 0022, S. E. PERSIAN GULF  
26.2N 54.7E

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE  
OF CEILING HEIGHT (NH >4/R) AND VSBY (NM)

CEILING (FEET)	OR		OR		VSBY (NM)		OR		OR		OR	
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0				
OR >6500	1.0	1.5	1.5	1.5	1.5	1.5	1.5	1.5				
OR >5000	1.2	1.7	1.7	1.7	1.7	1.7	1.7	1.7				
OR >3500	1.5	1.9	1.9	1.9	1.9	1.9	1.9	1.9				
OR >2000	1.7	2.4	2.4	2.4	2.4	2.4	2.4	2.4				
OR >1000	1.9	2.9	3.2	3.2	3.2	3.2	3.2	3.2				
OR >600	2.4	3.4	3.6	3.6	3.6	3.6	3.6	3.6				
OR >300	2.4	3.4	3.6	3.6	3.6	3.6	3.6	3.6				
OR >150	2.4	3.4	3.6	3.6	3.6	3.6	3.6	3.6				
OR >0	2.4	3.4	3.6	3.6	3.6	3.6	3.6	3.6				
TOTAL	10	14	15	15	15	15	15	15				

TOTAL NUMBER OF OBS: 412 PCT FREQ NH <5/8: 96.4

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

C	1		2		3		4		5		6		7		8		TOTAL	
	10.3	4.5	3.2	1.9	1.1	.6	.9	.9	.2	466								
76.4	10.3	4.5	3.2	1.9	1.1	.6	.9	.9	.2	466								

AREA 0022 S. E. PERSIAN GULF  
26.2N 54.7E

AUGUST

PERIOD: (PRIMARY) 1948-1970  
(OVER-ALL) 1907-1970

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF  
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NO PCP	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.2	.2
TOT %	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.2	.2
PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NO PCP	.0	.1	.2	.3	.2	.0	.0	.0	.0	.0	.9	.9
TOT %	.0	.1	.2	.3	.2	.0	.0	.0	.0	.0	.9	.9
PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NO PCP	.0	.5	.6	.5	.5	1.1	1.0	.0	.0	.7	4.8	4.8
TOT %	.0	.5	.6	.5	.5	1.1	1.0	.0	.0	.7	4.8	4.8
PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NO PCP	1.1	2.8	6.6	2.2	2.0	3.9	5.2	2.2	.0	4.6	30.6	30.6
TOT %	1.1	2.8	6.6	2.2	2.0	3.9	5.2	2.2	.0	4.6	30.6	30.6
PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NO PCP	2.2	6.1	8.1	6.6	4.1	8.1	12.2	4.7	.0	11.3	63.4	63.4
TOT %	2.2	6.1	8.1	6.6	4.1	8.1	12.2	4.7	.0	11.3	63.4	63.4
TOT OBS	3.3	9.5	15.6	9.6	6.8	13.1	18.7	6.9	.0	16.6	100.0	434
TOT PCT												

PERIOD: (PRIMARY) 1968-1970  
(OVER-ALL) 1907-1970

AUGUST

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED  
WITH VARYING VALUES OF VISIBILITY

AREA 0022 S. E. PERSIAN GULF  
26.2N 54.7E

WSBY (NM)	SPO KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.2	
	4-10	.0	.0	.0	.0	.0	.0	.1	.1	.0	.0	.2	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.3	.1	.0	.0	.4	
1<2	0-3	.0	.0	.0	.0	.2	.0	.1	.1	.0	.0	.4	
	4-10	.1	.1	.2	.1	.0	.2	.0	.1	.0	.0	.7	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.1	.1	.2	.3	.2	.2	.1	.2	.0	.0	1.3	
2<5	0-3	.0	.2	.0	.0	.0	.0	.0	.0	.0	.7	.9	
	4-10	.0	.2	.1	.4	.4	.8	.6	.0	.0	.0	2.6	
	11-21	.0	.0	.4	.0	.0	.4	.1	.0	.0	.0	.9	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.4	.5	.4	.4	1.2	.8	.0	.0	.7	4.4	
5<10	0-3	.2	.9	1.3	.6	.0	.2	1.1	.4	.0	4.0	8.6	
	4-10	.6	1.7	3.9	1.7	1.5	2.8	2.9	1.2	.0	.0	16.2	
	11-21	.2	.3	.7	.2	.5	.6	1.1	.2	.0	.0	3.9	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	1.0	2.9	5.9	2.4	2.0	3.5	5.1	1.8	.0	4.0	28.7	
10+	0-3	1.0	.7	2.6	.8	.4	1.0	2.2	1.6	.0	9.7	20.0	
	4-10	1.6	4.4	5.1	4.3	3.2	5.7	10.1	4.0	.0	.0	38.4	
	11-21	.0	.9	.5	1.1	.3	1.4	1.2	1.1	.0	.0	6.4	
	22+	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.2	
	TOT %	2.6	6.0	8.3	6.2	4.0	8.0	13.3	6.7	.0	9.7	65.1	
TOT OBS		544											
TOT PCT		3.7	9.3	14.9	9.3	6.3	13.0	19.8	8.8	.0	14.7	100.0	

PERIOD: (PRIMARY) 1948-1970  
(OVER-ALL) 1907-1970

AUGUST

AREA 0022 S. E. PERSIAN GULF  
26.2N 54.7E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET) NH > 4/8) AND  
OCCURRENCE OF NH < 5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	5000 7999	TOTAL 8000+	NH < 5/8 ANY HG?	TOTAL NH < 5/8 OBS
00203	.0	.0	.0	.0	1.7	.9	.9	.9	.0	.0	.9	5.2	94.8 115
06009	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.7	1.7	98.3 115
12015	.0	.0	.0	.0	.0	.8	.8	.0	.0	.0	2.5	4.2	95.8 110
18021	.0	.0	.0	.0	.0	.9	.0	.0	.9	.0	.0	1.7	98.3 116
TOT	0	0	0	0	2	3	2	1	1	0	6	15	449 464
PCT	.0	.0	.0	.0	.4	.6	.4	.2	.2	.0	1.3	3.2	98.8 100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) 9Y HOUR

HOUR (GMT)	<1/2	1/2-1	1-2	2-5	5-10	10+	TOTAL OBS
00203	.0	.0	.0	4.0	26.3	59.7	99
06009	.0	.0	.0	4.7	33.6	61.7	107
12015	.0	.0	.0	7.6	34	58.1	105
18021	.0	.0	.0	5.9	24.5	69.6	102
TOT	0	0	0	23	123	267	413
PCT	.0	.0	.0	5.6	29.8	64.6	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR  
CEILING HGT (FEET) NH > 4/8) BY HOUR

HOUR (GMT)	<150 <50Y0	<600 <1	<1000 <5	1000+ AND 5+	NH < 5/8 AND 5+	TOTAL OBS
00203	.0	.0	6.1	4.0	89.9	99
06009	.9	.9	4.7	1.9	93.5	107
12015	.0	.0	7.6	3.8	89.6	105
18021	.0	.0	5.9	2.0	92.2	102
TOT	1	1	25	12	376	413
PCT	.2	.2	6.1	2.9	91.0	100.0

## AUGUST

PERIOD: (PRIMARY) 1948-1970  
(OVER-ALL) 1907-1970

AREA 0022 S. E. PERSIAN GULF  
26.2N 56.7E

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL DAYS	PCT FREQ
100/104	.0	.0	.0	.3	.0	.0	.0	.0	1	.3
95/98	.0	.0	.0	2.6	4.7	3.7	1.0	.3	47	12.3
90/94	.0	.0	.0	.0	8.7	28.4	27.6	5.1	278	73.0
85/89	.0	.0	.0	.0	.0	2.1	.1	5.0	54	14.2
80/84	.0	.0	.0	.0	.0	.0	.3	.0	1	.3
TOTAL	.0	.0	.0	11	51	131	137	51	381	100.0
PCT	.0	.0	.0	2.9	13.4	34.4	36.0	13.4		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
100/104	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3
95/98	.3	1.3	2.0	1.2	.3	1.8	2.8	1.1	.0	1.6
90/94	3.1	5.9	11.9	5.6	3.9	11.4	16.7	5.4	.0	9.2
85/89	.7	2.4	2.2	1.1	1.6	.6	1.2	1.6	.0	2.9
80/84	.0	.0	.0	.0	.0	.0	.2	.1	.0	.0
TOTAL	15	36	61	30	22	52	79	31	0	53
PCT	4.0	9.6	16.0	7.9	5.8	13.8	20.9	8.1	.0	13.9

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	HAX	99%	95%	90%	50%	5%	1%	MIN	MEAN	TOTAL DAYS
00003	94	93	93	90	87	86	86	84	89.9	153
06009	99	98	96	92	89	87	86	86	92.3	146
12015	100	99	98	93	89	87	85	85	93.2	140
18021	97	95	93	91	87	86	84	84	90.5	152
TOT	100	98	96	91	88	86	86	84	91.4	597

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL DAYS
00003	.0	.0	4.6	24.8	45.9	24.8	84	108
06009	.0	3.1	11.5	53.1	26.0	6.3	77	96
12015	.0	6.9	30.7	33.6	21.8	5.0	73	101
18021	.0	1.0	6.7	27.6	49.5	15.2	82	105
TOT	0	11	54	143	149	57	70	411

PERIOD: (PRIMARY) 1948-1970  
(OVER-ALL) 1907-1970

AUGUST

AREA 0022 S. E. PERSIAN GULF  
26.2N 54.7E

TABLE 17

PCT PREO OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)  
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	81	85	89	93	TOT	W	VS FOG
	84	88	92	96			
9/10	.0	.0	.0	.3	3	.0	.5
7/8	.0	.0	.0	.3	9	.0	1.5
6	.0	.0	.0	1.0	10	.3	1.5
5	.0	.0	.5	1.0	19	.0	2.0
4	.0	.0	1.3	1.0	18	.0	3.8
3	.0	.0	2.3	4.3	32	.0	7.7
2	.0	.0	3.6	4.3	31	.5	7.4
1	.0	.0	6.6	4.6	44	.0	11.2
0	.0	1.0	16.8	3.1	82	.3	20.7
-1	.0	1.5	9.9	1.0	49	.0	12.5
-2	.0	2.3	12.2	.3	58	.3	14.5
-3	.3	1.8	4.1	.0	24	.0	6.1
-4	.0	.3	2.3	.3	11	.0	2.8
-5	.0	.5	1.0	.0	6	.0	1.5
-6	.0	.5	.0	.0	2	.0	.5
-7/-8	.0	.3	.3	.0	3	.0	.8
-9/-10	.0	.3	.0	.0	1	.0	.3
TOTAL	1	34	239	90	392	.3	373
PCT	.3	8.7	61.0	23.0	100.0	1.3	95.2

PERIOD: (PRE:NAVY)  
(OVER-ALL) 1963-1970

AUGUST  
TABLE 18

AREA 0022 S. E. PERSIAN GULF  
26.2N 54.7E

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N										NE										PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	
<1	1.0	2.9	.0	.0	.0	.0	3.9	1.0	1.0	.0	.0	.0	.0	2.0	1.0	.0	.0	.0	.0	.0	3.0
1-2	.0	1.7	.0	.0	.0	.0	1.7	1.0	1.5	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.4
3-4	.0	.0	.0	.0	.0	.0	.0	.0	2.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.9
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.0	4.7	.0	.0	.0	.0	5.5	2.0	5.4	1.0	.0	.0	.0	8.3	.0	.0	.0	.0	.0	.0	.0

HGT	E										SE										PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	
<1	3.9	3.9	.0	.0	.0	.0	9.8	.0	3.9	.0	.0	.0	.0	3.9	.0	.0	.0	.0	.0	.0	3.9
1-2	.0	1.7	.0	.0	.0	.0	1.7	.0	2.0	2.9	.0	.0	.0	4.9	.0	.0	.0	.0	.0	.0	4.9
3-4	.0	2.7	1.0	.0	.0	.0	3.7	1.0	.2	1.0	.0	.0	.0	1.2	.0	.0	.0	.0	.0	.0	1.2
5-6	.0	2.0	.0	.0	.0	.0	2.0	.0	.0	.0	.0	.0	.0	1.0	.0	.0	.0	.0	.0	.0	1.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	3.9	12.3	1.0	.0	.0	.0	17.2	1.0	6.1	3.9	.0	.0	.0	11.0	.0	.0	.0	.0	.0	.0	.0

PERIOD: (PRIMARY)  
(OVER-ALL) 1963-1970

AUGUST  
TABLE 18

AREA 0022 S.E. PERSIAN GULF  
26.2N 54.7E

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S					SW					PCT		
	1-3	4-10	11-21	22-33	34-47	48+	1-3	4-10	11-21	22-33		34-47	48+
<1	.0	1.5	.0	.0	.0	.0	1.0	5.4	1.0	.0	.0	.0	7.4
1-2	.0	2.0	.0	.0	.0	.0	.0	6.1	2.0	.0	.0	.0	8.1
3-4	.0	1.0	1.0	.0	.0	.0	.0	2.0	2.0	.0	.0	.0	3.9
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	4.4	1.0	.0	.0	.0	1.0	13.5	5.1	.0	.0	.0	15.6

HGT	W					NW					PCT		
	1-3	4-10	11-21	22-33	34-47	48+	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	2.0	2.0	1.0	.0	.0	.0	2.0	1.0	.0	.0	.0	.0	2.9
1-2	.0	10.5	1.0	.0	.0	.0	.0	5.9	.0	.0	.0	.0	5.9
3-4	.0	2.7	1.0	.0	.0	.0	.0	2.2	1.0	.0	.0	.0	3.2
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	1.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.0	15.2	3.7	.0	.0	.0	2.0	9.1	1.0	.0	.0	.0	12.0



PERIOD: (PRIMARY)  
(OVER-ALL) 19A3-1970

AUGUST

AREA 0022 S. E. PERSIAN GULF  
26.2N 54.7E

TABLE 1B (CONT)

HGT	WIND SPEED (KTS) VS SEA HEIGHT (FT)							TOT OBS
	0-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	32.1	17.9	.7	.0	.0	.0	50.7	
1-2	.7	23.9	5.2	.0	.0	.0	29.9	
3-4	.0	9.7	5.2	.0	.0	.0	14.9	
5-6	.7	2.2	.0	.0	.0	.0	3.0	
7	.0	.0	1.5	.0	.0	.0	1.5	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	33.6	53.7	12.7	.0	.0	.0	100.0	
							134	

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+ TOTAL	MEAN HGT
<6	12.0	29.4	11.7	.3	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	171
6-7	.0	.9	1.9	.3	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	11
8-9	.3	.3	.6	.3	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3
10-11	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3
12-13	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1
INDEX	33.9	4.7	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
TOTAL	146	114	49	4	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	125
PCT	46.2	36.1	15.5	1.3	.6	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	316
																				100.0

SEPTEMBER

PERIOD: (PRIMARY) 1940-1970  
(SECOND-ALL) 1905-1970

AREA 0022 S, E. PERSIAN GULF  
20.1N 54.7E

TABLE 1

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	RAIN SHWR	RAIN SHWR	DRZL	PRECIPITATION TYPE				HAIL	PCT FREQ PCPN AT 08 TIME	TOTAL PCPN OBS	THOR LTNG	OTHER WEATHER PHENOMENA				TOTAL OBS
				FRZG PCPN	SNOW PCPN	OTHER PCPN	FRZN					FG	SMOKE	HAZE	BLWG	NO SIG
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.2	.0	.2	.0	.0	3.6
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.5	.0	.0	10.0
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.2	1.6	.0	9.9
SE	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.4	.0	5.9
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	5.1
Sk	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.3	.0	10.8
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	1.9	.0	1.1	23.8
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.1	.0	.0	10.1
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.9	.0	.7	11.8
TOT OBS	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.1	.3	.26	.9	.9	400
TOT PCT	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.2	.7	5.9	2.1	2.1	91.1
																100.0

TABLE 2

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	RAIN	RAIN SHWR	DRZL	PRECIPITATION TYPE				HAIL	PCT FREQ PCPN AT 08 TIME	TOTAL PCPN OBS	THOR LTNG	OTHER WEATHER PHENOMENA				TOTAL OBS
				FRZG PCPN	SNOW PCPN	OTHER PCPN	FRZN					FG	SMOKE	HAZE	BLWG	NO SIG
0003	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	2.7	2.7	94.5
0609	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	1.5	7.5	1.5	89.6
12015	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.8	8.2	2.5	88.5
18021	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.9	3.6	1.8	92.7
TOT	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.1	.3	.27	.9	1.0	436
PCT	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.2	.6	5.7	2.1	2.1	91.4
																100.0

SEPTEMBER

PERIOD: (PRIMARY) 1940-1970  
(OVER-ALL) 1865-1970

AREA 0022 S. E. PERSIAN GULF  
26.1N 54.7E

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	0-3	WIND SPEED (KNOTS)				PCT FREQ	MEAN SPO	HOUR (GMT)							
		4-10	11-21	22-33	34-47	48+		00	03	06	09	12	15	18	21
N	1.2	2.0	7	.2	.0	.0	6.6	5.6	2.0	6.5	1.3	1.3	4.8	4.0	8.0
NE	1.9	8.0	1.1	.0	.0	.0	6.6	9.9	28.0	18.5	10.6	6.4	6.5	7.9	4.0
E	3.0	7.5	1.6	.0	.0	.0	7.0	8.9	14.0	19.2	19.4	12.7	1.6	7.2	8.0
SE	1.5	4.5	.6	.0	.0	.0	5.9	4.6	14.0	4.1	13.8	9.4	1.6	4.7	8.0
S	2.0	2.1	.5	.0	.0	.0	5.0	5.9	4.0	5.2	3.8	4.6	4.8	1.0	.0
SW	2.1	7.5	.9	.0	.0	.0	6.1	7.4	6.0	11.0	12.5	20.0	9.7	5.7	5.0
W	3.9	17.2	3.1	.0	.0	.0	7.2	28.3	6.0	13.4	11.3	27.2	29.0	37.9	23.0
NW	3.1	7.1	1.6	.0	.0	.0	6.8	11.0	8.0	4.5	15.0	6.1	32.3	19.8	16.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	14.5	30.9	56	1	0	0	5.7	18.4	16.5	14.7	12.5	12.3	9.7	11.9	28.0
TOT OBS	184	56.2	10.2	.2	.0	.0	5.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
TOT PCT	33.5														

TABLE 3A

WIND DIR	0-6	WIND SPEED (KNOTS)				41+ TOTAL OBS	PCT FREQ	MEAN SPO	HOUR (GMT)							
		7-16	17-17	28-40	41+				00	03	06	09	12	15	18	21
N	2.9	.9	.4	.0	.0	23	4.2	6.6	4.9	4.9	5.1	2.1	2.1	4.8		
NE	6.2	4.8	*	.0	.0	60	11.0	6.6	13.6	13.6	16.5	6.4	7.1	7.1		
E	5.8	6.3	.1	.0	.0	67	12.2	7.0	10.4	10.4	19.2	10.3	7.3	7.3		
SE	4.7	1.8	.1	.0	.0	36	6.6	5.9	6.5	6.5	6.6	7.8	5.4	5.4		
S	3.7	.9	.1	.0	.0	23	4.6	5.0	5.3	5.3	7.1	4.7	.8	.8		
SW	6.7	4.0	.0	.0	.0	59	10.8	6.1	7.1	7.1	11.4	17.8	5.6	5.6		
W	11.8	11.9	.5	.0	.0	133	24.2	7.2	23.8	23.8	12.8	27.6	34.9	34.9		
NW	5.9	5.7	.2	.0	.0	65	11.8	6.8	10.4	10.4	7.2	11.7	19.0	19.0		
VAR	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0		
CALM	14.5	200	8	.0	.0	80	14.5	.0	17.9	17.9	14.1	11.7	15.1	15.1		
TOT OBS	342	36.4	1.5	.0	.0	550	5.7		123	123	136	145	126	126		
TOT PCT	62.2								100.0	100.0	100.0	100.0	100.0	100.0		

SEPTEMBER

PERIOD: (PRIMARY) 1940-1970  
(OVER-ALL) 1865-1970

AREA 0022 S. E. PERSIAN GULF  
26.1N 54.7E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR (ALM)	WIND SPEED (KNOTS)					PCT FREQ	TOTAL OBS
	1-3	4-10	11-21	22-33	34-47	48+	
00003	17.9	51.2	12.2	.0	.0	5.5	100.0
06009	14.1	55.1	7.1	.6	.0	5.3	100.0
12015	11.7	61.4	8.3	.0	.0	5.7	100.0
18021	15.1	56.3	14.3	.0	.0	5.3	100.0
TOT	60	309	56	1	0	5.7	550
PCT	14.5	56.2	10.2	.2	.0	100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (HEIGHTS)  
BY WIND DIRECTION

WIND DIR	PCT FREQ					TOTAL OBS	MEAN CLOUD COVER
	0-2	3-4	5-7	8-6	9-10		
N	4.4	.3	.3	.0	.0	19	.6
NE	10.8	.0	.3	.0	.0	44	.3
E	11.5	.3	.0	.0	.0	46	.2
SE	6.4	.1	.0	.0	.0	25	.7
S	4.2	.4	.3	.0	.0	19	1.2
SW	10.4	.1	.5	.0	.0	43	.5
W	23.9	1.3	.3	.0	.0	101	.4
NW	10.5	.1	.3	.0	.0	43	.4
VAR	.0	.0	.0	.0	.0	0	.0
CALM	12.0	.3	.5	.3	.0	54	.5
TOT OBS	376	11	9	1	397		.5
TOT PCT	94.7	2.8	2.3	.3	100.0		

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT) NH > 478  
AND OCCURRENCE OF NH < 578 BY WIND DIRECTION

WIND DIR	PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT) NH > 478										TOTAL OBS
	000	150	300	500	999	1999	3499	4999	5000	5500	
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	19
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	44
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	46
SE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	25
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	19
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	43
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	101
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	43
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	54
TOT OBS	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	397
TOT PCT	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0

SEPTEMBER

PERIOD (PRIMARY) 1940-1970  
(OVER-ALL) 1865-1970

AREA 0032 S. E. PERSIAN GULF  
26.1N 54.7E

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE  
OF CEILING HEIGHT (NH > 4/8) AND VSBY (NM)

CEILING (FEET)	OR >10	OR >5	OR >2	OR >1	OR >1/2	OR >1/4	OR >50YD	OR >0
OR >6500	.0	.0	.0	.0	.0	.0	.0	.0
OR >5000	.2	.2	.2	.2	.2	.2	.2	.2
OR >3500	.5	.5	.5	.5	.5	.5	.5	.5
OR >2000	.7	.7	.9	.9	.9	.9	.9	.9
OR >1000	.9	.9	1.2	1.2	1.2	1.2	1.2	1.2
OR >600	.9	.9	1.2	1.2	1.2	1.2	1.2	1.2
OR >300	.9	.9	1.4	1.4	1.4	1.4	1.4	1.4
OR >150	.9	.9	1.4	1.4	1.4	1.4	1.4	1.4
OR >0	.9	.9	1.4	1.4	1.4	1.4	1.4	1.4
TOTAL	4	4	6	6	6	6	6	6

TOTAL NUMBER OF OBS: 423

PCT FREQ NH < 5/8: 98.6

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	OBSCD	TOTAL
77.7	11.8	5.4	1.4	1.4	1.4	.7	.5	.0	.2	.0	429

PERIOD: (PRIMARY) 1940-1970  
(OVER-ALL) 1865-1970

SEPTEMBER

AREA: 0022 S. E. PERSIAN GULF  
26.1N 56.7E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF  
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VISV (NM)	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NO PCP	.0	.0	.0	.0	.0	.1	.2	.0	.0	.0	.2	.2
TOT %	.0	.0	.0	.0	.0	.1	.2	.0	.0	.0	.2	.2
1/2<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1<2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NO PCP	.0	.2	.3	.2	.0	.0	.2	.0	.0	.0	.9	.9
TOT %	.0	.2	.3	.2	.0	.0	.2	.0	.0	.0	.9	.9
2<5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NO PCP	.0	.0	.0	.0	.2	.0	.2	.0	.0	.9	1.4	1.4
TOT %	.0	.0	.0	.0	.2	.0	.2	.0	.0	.9	1.4	1.4
5<10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NO PCP	.5	.7	2.0	1.0	.6	1.9	6.0	2.2	.0	2.7	17.6	17.6
TOT %	.5	.7	2.0	1.0	.6	1.9	6.0	2.2	.0	2.7	17.6	17.6
10+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NO PCP	3.7	9.6	9.5	5.1	4.3	9.2	20.3	8.0	.0	10.1	79.9	79.9
TOT %	3.7	9.6	9.5	5.1	4.3	9.2	20.3	8.0	.0	10.1	79.9	79.9
TOT OBS	4.1	10.6	11.8	6.4	5.1	11.2	26.9	10.2	.0	13.7	100.0	437
TOT PCT												

PERIOD: (PRIMARY) 1960-1970  
(OVER-ALL) 1865-1970

SEPTEMBER

AREA 0022 S.E., PERSIAN GULF  
20.1N 54.7E

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED  
WITH VARYING VALUES OF VISIBILITY

VSAY (NM)	SPO KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5<10	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10+	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT OR		3.8	11.4	12.0	6.0	4.7	11.0	24.8	12.2	.0	14.2	100.0
TOT PCT												514

PERIOD (PRIMARY) 1940-1970  
(OVER-ALL) 1965-1970

SEPTEMBER

AREA 0022 S. S. PERSIAN GULF  
26.1N 54.7E

TABLE 10  
PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH > 478) AND  
OCCURRENCE OF NH < 578 BY HOUR

HOUR (GMT)	000	150	300	450	600	750	900	1050	1200	1350	1500	1650	1800	1950	TOTAL	NH < 578 ANY HGT	TOTAL OBS
00003	.0	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.0	98.0
06009	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.3	97.7
12015	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	105
18021	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.0	99.0
TOT PCT	.0	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6	433
	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.4	98.6
																	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2-1	1-2	2-5	5-10	10+	TOTAL OBS
00003	.0	.0	.0	2.0	11.0	87.0	100
06009	.0	.0	.0	3.3	13.1	83.6	122
12015	.0	.0	2.0	1.0	14.0	83.0	100
18021	1.0	.0	1.0	.0	15.8	82.2	101
TOT PCT	1	0	3	7	57	335	423
	.2	.0	.7	1.7	13.5	83.9	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR  
CEILING HGT (FEET, NH > 478) BY HOUR

HOUR (GMT)	<150 CEILING	<600 CEILING	<1000 CEILING	1000+ AND 5+	NH < 578 AND 5+	TOTAL OBS
00003	.0	1.0	2.0	.0	98.0	100
06009	.0	.0	3.3	2.3	94.3	122
12015	.0	.0	3.0	.0	97.0	100
18021	.0	1.0	2.0	1.0	97.0	101
TOT PCT	0	2	11	4	408	423
	.0	.5	2.6	.9	96.5	100.0



SEPTEMBER

PERIOD: (PRIMARY) 1940-1970  
(OVER-ALL) 1865-1970

AREA 0022 S. E. PERSIAN GULF  
26.1N 56.7E

TABLE 13

		PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP										TOTAL	
TEMP	F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	DBS	PCT	FREQ	DBS
95/99		.0	.0	.0	.3	2.8	1.9	.6	.0	18	5.6		
90/94		.0	.0	.0	4.4	12.2	23.2	12.5	1.6	172	53.9		
85/89		.0	.0	.0	.3	2.3	11.9	19.4	4.4	123	38.6		
80/84		.0	.0	.0	.0	.0	.0	1.6	.3	6	1.9		
TOTAL		.0	.0	.0	16	56	1.8	109	20	319	100.0		
PCT		.0	.0	.0	5.0	17.6	27.0	34.2	6.3				

TABLE 14

		PERCENT FREQUENCY OF WIND DIRECTION BY TEMP										TOTAL	
TEMP	F	N	NE	E	SE	S	SW	W	NW	VAR	CALM	DBS	FREQ
95/99		.6	.0	1.6	.9	.6	.6	.9	.0	.0	.6		
90/94		1.6	7.2	7.7	3.4	2.4	4.7	13.5	6.6	.0	6.9		
85/89		1.9	4.3	2.4	2.3	2.7	5.9	10.7	4.1	.0	4.4		
80/84		.0	.3	.2	.5	.5	.1	.2	.0	.0	.0		
TOTAL		13	37	37	23	19	35	80	34	0	38		
PCT		4.1	11.8	11.8	7.2	6.2	11.1	25.2	10.7	.0	11.9		

TABLE 15

		MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR										TOTAL	
TEMP	F	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL	DBS	FREQ	DBS
95/99		94	93	91	88	85	82	81	88.1	132			
90/94		97	95	94	91	86	80	80	90.7	162			
85/89		100	99	97	92	88	86	86	92.0	153			
80/84		93	92	92	89	86	84	82	89.2	132			
TOTAL		100	97	95	90	86	82	80	90.1	579			

TABLE 16

		PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR										TOTAL	
TEMP	F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	DBS	FREQ	DBS
95/99		.0	.0	.0	.0	9.1	27.3	51.1	12.5	81			
90/94		.0	.0	.0	4.0	19.2	47.5	25.3	4.0	76			
85/89		.0	.0	.0	13.1	38.1	31.0	15.5	2.4	70			
80/84		.0	.0	.0	1.3	6.8	46.1	42.1	3.9	79			
TOTAL		0	16	64	132	115	20	77	347				

PERIOD: (PRIMARY) 1940-1970  
(OVER-ALL) 1865-1970

SEPTEMBER

AREA 0022 S. E. PERSIAN GULF  
26.1N 54.7E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)  
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TEMP OIF	77	81	85	89	93	TOT	W FOG	WD FOG
7/8	.0	.0	.0	.2	1.0	7	.0	1.5
6	.0	.0	.0	.0	.5	4	.0	1.7
5	.0	.0	.0	.2	1.2	8	.0	2.7
4	.0	.0	.0	1.2	1.5	11	.0	6.3
3	.0	.0	.2	1.5	4.6	26	.5	10.0
2	.0	.0	.5	4.1	3.9	43	.0	10.5
1	.0	.0	.2	8.0	2.2	70	.0	17.1
0	.0	.0	3.4	12.2	1.5	52	.0	12.7
-1	.0	.2	2.9	9.3	.2	53	.0	12.9
-2	.0	.0	3.7	9.0	.2	35	.0	8.3
-3	.2	.0	2.9	4.6	.2	26	.0	6.3
-4	.0	.2	4.6	1.5	.0	14	.0	3.4
-5	.0	.0	2.4	1.0	.0	9	.0	2.2
-6	.0	.2	1.2	.7	.0	8	.0	2.0
-7/-8	.0	.2	1.5	.2	.0	1	.0	.2
-9/-10	.0	.2	.0	.0	.0	410	.2	40.4
TOTAL	1	5	97	229	70	100.0	.5	98.5
PCT	.2	1.2	23.7	55.9	17.1			

SEPTEMBER  
TABLE 18  
AREA 0022 S. E. PERSIAN GULF  
26.1N 54.7E

PERIOD: (PRIMARY) 1963-1970  
(OVER-ALL)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	2.5	1.3	.0	.0	.0	.0	3.8	2.8	7.9	.0	.0	.0	.0	10.8
1-2	.0	.0	.0	.0	.0	.0	.0	.0	7.6	.0	.0	.0	.0	7.6
3-4	.0	.0	.0	.0	.0	.0	.0	.0	1.3	.3	.0	.0	.0	1.6
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.5	1.3	.0	.0	.0	.0	3.8	2.8	16.8	.3	.0	.0	.0	19.9

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	4.7	2.2	.0	.0	.0	.0	7.0	1.3	2.3	.0	.0	.0	.0	3.8
1-2	1.3	3.8	.0	.0	.0	.0	5.1	.0	1.3	.0	.0	.0	.0	1.3
3-4	.0	1.3	.9	.0	.0	.0	2.2	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	5.0	7.3	.9	.0	.0	.0	14.2	1.3	3.8	.0	.0	.0	.0	5.1

SEPTEMBER  
TABLE 18  
AREA 0022 S. E. PERSIAN GULF  
26.1N 54.7E

PERIOD: (PRIMARY)  
(OVER-ALL) 1963-1970

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	2.5	1.9	.0	.0	.0	.0	4.4
1-2	1.3	.0	.0	.0	.0	.0	1.3	.0	3.8	.3	.0	.0	.0	4.1
3-4	.0	.0	.0	.0	.0	.0	.0	.0	1.3	1.3	.0	.0	.0	2.5
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.3	.3	.0	.0	.0	.6
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.3	.0	.0	.0	.0	.0	1.3	2.5	7.3	1.9	.0	.0	.0	11.7

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	2.2	9.2	.0	.0	.0	.0	11.4	5.4	4.1	.0	.0	.0	.0	9.5
1-2	1.3	10.1	.9	.0	.0	.0	12.3	1.3	.0	1.3	.0	.0	.0	1.3
3-4	.0	.0	2.5	.0	.0	.0	2.5	.0	.0	.0	.0	.0	.0	1.3
5-6	.0	2.2	3.2	.0	.0	.0	5.4	.0	.0	.3	.0	.0	.0	.3
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	3.5	21.5	6.6	.0	.0	.0	31.6	6.6	4.1	1.6	.0	.0	.0	12.3

SEPTEMBER

AREA 0022 S.E. PERSIAN GULF  
26.1N 54.7E

PERIOD (PRIMARY) : 03-1070  
(OVER-ALL)

TABLE 18 (CONT)

HGT	WIND SPEED (KTS) VS SEA HEIGHT (FT)							TOT D \$
	0-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	39.4	23.1	.0	.0	.0	.0	62.5	
1-2	2.9	20.2	1.9	.0	.0	.0	25.0	
3-4	1.0	2.9	3.8	.0	.0	.0	7.7	
5-6	.0	1.9	2.9	.0	.0	.0	4.8	
7	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	43.3	49.1	8.7	.0	.0	.0	100.0	
							104	

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	15.0	29.7	10.2	3.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	18.2
6-7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	10
12-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2
INDET	30.4	5.4	1.6	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.4
TOTAL	142	113	24	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	31.3
PCT	45.4	36.1	14.1	4.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0

## OCTOBER

PERIOD: (PRIMARY) 1949-1970  
(OVER-ALL) 1906-1970

AREA 0022 5. E. PERSIAN GULF  
26.2N 54.8E

TABLE 1

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	RAIN	RAIN SHR	DRZL	PRECIPITATION TYPE			HAIL	PCT FREQ PCPN AT OB TIME	TOTAL PCPN OBS	THDR LTNG	OTHER WEATHER PHENOMENA					TOTAL OBS
				FRZG PCPN	SNOW PCPN	OTHER PCPN					FGG NO	SMOKE HAZE	DUST BLNG	DUST BLNG	SIG WEA	
N	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	2.3	12
NE	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	7.7	43
E	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	10.1	54
SE	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	3.6	20
S	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	5.9	30
SW	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	11.7	63
W	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	24.8	132
NW	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	12.5	66
VAR	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	16.5	0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	486	87
TOT OBS	0	0	0	0	0	0	0	.0	0	.0	.0	.0	.0	.0	95.1	100.0
TOT PCT	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0		

TABLE 2

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	RAIN	RAIN SHR	DRZL	PRECIPITATION TYPE			HAIL	PCT FREQ PCPN AT OB TIME	TOTAL PCPN OBS	THDR LTNG	OTHER WEATHER PHENOMENA				TOTAL OBS	
				FRZG PCPN	SNOW PCPN	OTHER PCPN					FGG NO	SMOKE HAZE	DUST BLNG	DUST BLNG		SIG WEA
0000Z	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	97.3	169
0600Z	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	95.5	153
1201Z	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	92.1	139
1802Z	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	96.6	119
TOT	0	0	0	0	0	0	.0	.0	0	.0	.0	.0	.0	.0	536	562
PCT	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	95.4	100.0

## OCTOBER

PERIOD: (PRIMARY) 1949-1970  
(OVER-ALL) 1900-1970

AREA 0021 S. E. PERSIAN GULF  
26.2N 54.8E

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)					HOUR (GMT)											
	0-3	4-10	11-21	22-23	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPO	00	03	06	09	12	15	18	21
N	1.2	1.3	.1	.0	.0	.0	15	2.6	5.0	3.0	.0	3.7	.0	.9	.0	3.9	5.0
NE	1.7	5.7	1.0	.0	.0	.0	50	8.4	6.7	7.4	6.3	15.9	9.4	6.6	5.6	3.7	5.0
E	2.5	6.5	1.5	.2	.0	.0	64	10.7	6.7	6.3	15.6	16.1	18.8	14.8	11.1	2.2	.0
SE	1.2	2.9	.9	.0	.0	.0	25	4.3	6.3	1.3	11.0	4.6	5.4	6.4	.0	3.7	.0
S	1.5	3.6	.9	.1	.0	.0	37	6.2	6.8	5.6	12.5	6.1	12.5	6.2	5.3	4.6	5.0
SW	2.4	7.7	1.8	.2	.0	.0	72	12.1	7.1	9.3	.0	13.9	3.1	16.5	13.9	8.7	30.0
W	4.6	15.9	5.9	.2	.0	.0	153	26.5	7.9	25.9	18.8	21.3	21.9	28.0	41.7	31.0	31.3
NW	1.3	7.3	2.2	.0	.0	.0	74	12.5	8.6	20.6	12.5	4.3	9.4	4.7	11.1	22.0	18.8
VAR	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	16.7	304	84	5	0	0	100	16.7	6.1	20.7	18.9	14.1	15.6	13.8	11.1	19.3	5.0
TOT OBS	201	52.8	14.7	.3	.0	.0	598			134	14	135	32	132	18	109	20
TOT PCT	33.4					.0	100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPO	HOUR (GMT)									
	0-6	7-16	17-27	28-40	41+				00	03	06	09	12	15	18	21		
N	2.0	.5	.0	.0	.0	15	2.6	5.0	2.6	3.0	.8	.8	.8	.8	4.1	.0		
NE	4.7	3.6	.2	.0	.0	50	8.4	6.7	7.3	7.3	14.7	6.5	6.5	6.5	3.9	.0		
E	6.9	3.3	.5	.0	.0	64	10.7	6.7	7.3	7.3	16.6	14.4	14.4	14.4	2.7	.0		
SE	2.3	2.1	.0	.0	.0	26	4.3	6.3	2.8	2.8	5.5	5.6	5.6	5.6	3.1	.0		
S	3.9	1.9	.4	.0	.0	37	6.2	6.8	6.3	6.3	7.3	6.1	6.1	6.1	4.7	.0		
SW	6.9	4.6	.0	.0	.0	72	12.1	7.9	8.3	8.3	11.8	16.2	16.2	16.2	12.0	.0		
W	11.8	14.2	.5	.0	.0	158	26.5	7.9	25.2	25.2	21.4	29.6	29.6	29.6	21.0	.0		
NW	5.0	6.4	.9	.2	.0	74	12.5	8.6	19.7	19.7	5.2	5.5	5.5	5.5	21.5	.0		
VAR	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
CALM	16.7	.0	.0	.0	.0	100	16.7	.0	20.5	20.5	14.4	15.2	15.2	15.2	17.1	.0		
TOT OBS	350	219	18	1	0	598		6.1	151	151	167	181	181	181	129			
TOT PCT	60.2	36.6	3.0	.2	.0	100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0			

OCTOBER  
 PERIOD: (PRIMARY: 1949-1970 (OVER-ALL) 1906-1970  
 AREA 0022 S. E. PERSIAN GULF  
 26.2N 54.8E

TABLE 4										
PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)										
HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			PCT		TOTAL OBS	
				11-21	22-33	34-47	48+	MEAN FREQ		
0000	20.5	15.9	46.4	15.9	1.3	.0	.0	6.2	100.0	171
0600	14.4	21.0	32.1	12.0	.6	.0	.0	5.7	100.0	127
1200	15.2	16.6	51.7	15.7	.7	.0	.0	6.4	100.0	131
1800	17.1	13.2	53.5	15.5	.8	.0	.0	6.2	100.0	129
TOT	100	101	304	88	5	0	0	6.1		598
PCT	16.7	16.9	50.8	14.7	.8	.0	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8-10	TOTAL	MEAN CLOUD COVER
N	1.7	.2	.0	.0	8	.5
NE	8.9	.3	.0	.0	43	.4
E	8.8	.9	.2	.0	46	.6
SE	3.6	.2	.0	.0	17	.6
S	5.0	.6	.0	.0	26	.7
SW	12.3	.2	.0	.0	58	.2
W	25.4	1.3	.0	.0	123	.3
NW	11.8	.1	.0	.0	55	.0
CALM	.0	.0	.0	.0	0	.0
TOT OBS	17.7	.6	.2	.0	63	.1
TOT PCT	44.2	20	2	.0	464	.3
	55.3	4.3	.4	.0	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT) BY WIND DIRECTION

WIND DIR	CEILING HEIGHTS (FT)										TOTAL OBS
	0-500	500-1000	1000-2000	2000-3000	3000-4000	4000-5000	5000-6000	6000-8000	8000-10000	10000+	
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	43
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	46
SE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	17
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	26
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	58
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	123
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	55
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
TOT OBS	17.7	.6	.2	.0	.0	.0	.0	.0	.0	.0	63
TOT PCT	44.2	20	2	.0	.0	.0	.0	.0	.0	.0	464
	55.3	4.3	.4	.0	.0	.0	.0	.0	.0	.0	100.0



PERIOD: (PRIMARY) 1944-1970  
(OVER-ALL) 1906-1970

OCTOBER

AREA 0022 S. E. PERSIAN GULF  
26.22N 54.8E

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE  
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	OR		OR		OR		OR		OR		OR		CR
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0			>0		
OR >6500	.0	.0	.0	.0	.0	.0	.0	.0			.0	.0	
OR >5000	.0	.0	.0	.0	.0	.0	.0	.0			.0	.0	
OR >3500	.0	.0	.0	.0	.0	.0	.0	.0			.0	.0	
OR >2000	.2	.2	.2	.2	.2	.2	.2	.2			.2	.2	
OR >1000	.2	.2	.2	.2	.2	.2	.2	.2			.2	.2	
OR >600	.2	.2	.2	.2	.2	.2	.2	.2			.2	.2	
OR >300	.2	.2	.2	.2	.2	.2	.2	.2			.2	.2	
OR >150	.2	.2	.2	.2	.2	.2	.2	.2			.2	.2	
OR >0	.2	.2	.2	.2	.2	.2	.2	.2			.2	.2	
TOTAL	1	1	1	1	1	1	1	1			1	1	

TOTAL NUMBER OF OBS: 507

PCT FREQ NH <5/8: 99.8

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	TOTAL							
	0	1	2	3	4	5	6	7
82.1	13.1	2.9	1.1	.6	.2	.0	.0	.0
525								

PERIOD: (PRIMARY) 1949-1970  
(OVER-ALL) 1906-1970

OCTUBER

AREA 0022 S. E. PERSIAN GULF  
26.2N 54.8E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF  
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
<1/2 NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1/2<1 NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
<1/2 NO PCP	.0	.2	.1	.1	.0	.0	.0	.0	.0	.0	.0	.4
TOT %	.0	.2	.1	.1	.0	.0	.0	.0	.0	.0	.0	.4
PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
<1/2 NO PCP	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.4
TOT %	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.4
PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
<1/2 NO PCP	.0	.5	1.1	.5	.8	2.1	2.0	2.0	.0	.0	.0	9.6
TOT %	.0	.5	1.1	.5	.8	2.1	2.0	2.0	.0	.0	.0	9.6
PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
<1/2 NO PCP	.0	7.9	9.2	3.4	5.1	10.4	23.7	10.9	.0	16.2	.0	89.4
TOT %	.0	7.9	9.2	3.4	5.1	10.4	23.7	10.9	.0	16.2	.0	89.4
TOT OBS	2.5	8.6	10.7	4.1	5.9	12.5	25.9	12.9	.0	17.0	100.0	511
TOT PCP	2.5	8.6	10.7	4.1	5.9	12.5	25.9	12.9	.0	17.0	100.0	511

PEK1001 (PRIMARY) 1949-1970  
(OVER-ALL) 1906-1970

OCTOBER

AREA 0022 S. E. PERSIAN GULF  
26.2N 54.8E

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED  
WITH VARYING VALUES OF VISIBILITY

VSRY	SPD	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL
(NM)	KTS												OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1<	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5<10	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10+	0-3	1.2	1.7	2.5	1.0	1.1	2.1	4.4	1.7	.0	15.3	31.0	31.0
	4-10	1.3	5.2	5.5	2.3	3.5	6.5	14.9	6.1	.0	45.3	45.3	45.3
	11-21	.1	1.0	.7	.2	.6	1.1	5.4	2.8	.0	12.0	12.0	12.0
	22+	.0	.0	.2	.0	.1	.2	24.2	10.7	.0	15.3	89.2	89.2
	TOT %	2.7	8.0	8.9	3.5	5.3	9.9	24.9	10.7	.0	15.3	89.2	89.2
TOT OBS		2.7	8.6	10.7	4.2	6.0	12.0	26.9	12.5	.0	15.5	100.0	100.0
TOT PCT													581

AREA 0022 S. E. PERSIAN GULF  
26.2N 54.8E

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH &gt; 4/8) AND OCCURRENCE OF NH &lt; 5/8 BY HOUR

HQUR {GMT}	00C 145	150 299	200 599	300 999	400 1999	500 4999	600 5000	700 6999	800+	TOTAL	NH, ANY	K5/B HGT	TOTAL DBS
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		100.0	140
.0	.0	.0	.0	.0	.7	.0	.0	.0	.0	.7		99.3	149
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		100.0	128
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		100.0	108
1DT PCT	.0	.0	.0	.0	1	.0	.0	.0	.0	1	526	99.8	525
PCT	.0	.0	.0	.0	.2	.0	.0	.0	.0	.2			100.0

TABLE 12

HOUR (GMT)	PERCENT FREQUENCY VSSBY (NM) BY HOUR						CUMULATIVE PCT FREQ OF RANGES OF VSSBY (NM) CEILING HGT (FEET), NH >4(8), SY HOUR							ANO/DRO
	<1/2	1/2<1	<2	2<5	5<10	10+	TOTAL PDS	HOUR (GMT)	<150 <50YD	<600 <1	<1050 <5	1050+ ANO5+	NH <5/8 AND 5+	
000003	.0	.0	.0	.7	3.6	95.7	138	00003	.0	.0	.1	.0	99.3	138
000009	.0	.0	.0	1.4	6.3	92.3	142	00009	.0	.0	1.4	.7	97.9	142
120015	.0	.0	.0	.0	5.7	94.3	122	12015	.0	.0	.0	.0	100.0	122
180021	.0	.0	.0	.0	7.6	92.4	105	18021	.0	.0	.0	.0	100.0	105
TOT	0	0	0	3	29	475	507	TOT	0	0	3	1	503	507
PCT	.0	.0	.0	.6	5.7	93.7	100.0	PCT	.0	.0	.6	2	99.2	100.0

OCTOBER

PERIOD: (PRIMAR): 1949-1970  
(OVER-ALL) 1906-1970

AREA 0022 S. E. PERSIAN GULF  
26.2N 54.8E

TABLE 13

		PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP										TOTAL	
TEMP F		0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	OBS		PCT	FREQ
95/99	.0	.0	.0	.0	.0	.5	.2	.0	.0	3	.7		
90/94	.0	.0	.0	1.0	4.6	5.1	3.7	1.5	.5	67	16.3		
85/89	.0	.0	.0	2.2	7.6	16.3	20.7	11.5	3.4	253	61.7		
80/84	.0	.0	.0	.7	2.7	2.9	7.1	6.1	1.2	85	20.7		
75/79	.0	.0	.0	.0	.0	.0	.5	.0	.0	2	.5		
TOTAL	.0	.0	.0	16	61	102	132	78	21	410	100.0		
PCT	.0	.0	3.9	14.9	24.9	32.2	19.0	5.1					

TABLE 14

		PERCENT FREQUENCY OF WIND DIRECTION BY TEMP										TOTAL	
TEMP F		N	NE	E	SE	S	SW	W	NW	VAR	CALM		
95/99	.0	.0	.0	.0	.0	.0	.0	.4	.1	.0	.2		
90/94	.0	.0	.0	.0	.0	.0	.0	.4	.1	.0	.2		
85/89	1.3	1.3	2.1	2.0	2.0	2.7	9.5	1.2	6.2	.0	9.0		
80/84	1.7	2.2	2.4	.9	.9	1.3	2.0	4.1	3.2	.0	3.9		
75/79	.0	.2	.0	.0	.0	.0	.0	.2	.0	.0	.0		
TOTAL	8	33	41	16	16	25	53	111	51	0	66		
PCT	2.1	8.1	10.0	4.1	4.1	6.3	13.5	27.2	12.6	.0	16.1		

TABLE 15

		MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR										TOTAL	
HOUR (GMT)		MAX	99%	95%	50%	5%	1%	MIN	MEAN	OBS			
0003	92	89	88	85	81	80	80	79	84.9	162			
0609	95	94	93	88	83	80	80	80	81.6	178			
1215	96	95	93	88	84	81	79	79	88.3	161			
1821	92	91	89	86	81	79	79	79	85.5	130			
TOT	96	94	92	84	82	80	80	79	86.7	631			

TABLE 16

		PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR										TOTAL	
HOUR (GMT)		0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	OBS		
0003	.0	.0	7.6	18.6	38.1	28.6	5.2	.0	.0	75	118		
0609	.0	.0	19.8	27.0	33.3	16.7	3.2	.0	.0	69	126		
1215	.0	.0	34.5	27.3	28.2	7.3	2.7	.0	.0	65	110		
1821	.0	.0	10.6	27.7	37.0	13.1	6.7	.0	.0	72	194		
TOT	0	0	82	112	153	80	21	.0	.0	71	448		

OCT08ER

PERIOD: (PRIMARY) 1949-1970  
(OVER-ALL) 1906-1970AREA 0022 S. E. PERSIAN GULF  
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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)  
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	77	81	85	89	93	TOT	M	NO FOG
7/8	.0	.0	.4	.4	.6	7	.0	1.4
6	.0	.0	.6	.2	1.0	9	.0	1.8
5	.0	.0	.6	1.4	.6	13	.0	2.7
4	.0	.0	.8	1.4	.6	14	.0	2.9
3	.0	.0	1.6	1.0	.4	15	.0	3.1
2	.0	.8	3.5	3.9	.2	41	.0	8.4
1	.0	.6	4.5	3.5	.0	42	.0	8.6
0	.0	2.5	6.0	4.1	.0	71	.0	14.5
-1	.2	1.6	9.2	1.8	.0	63	.0	12.9
-2	.2	2.7	9.8	.6	.0	65	.0	13.3
-3	.2	3.1	7.0	.4	.0	52	.0	10.7
-4	.4	3.3	3.3	.2	.0	35	.0	7.2
-5	.0	3.5	3.1	.0	.0	32	.0	6.6
-6	.2	1.6	1.2	.0	.0	15	.0	3.1
-7/-8	.0	1.2	1.0	.0	.0	11	.0	2.3
-9/-10	.4	.2	.0	.0	.0	3	.0	.6
TOTAL	8	103	267	93	17	488	0	488
PCT	1.6	21.1	54.7	19.1	3.5	100.0		100.0

PERIOD: (PRIMARY)  
(OVER-ALL) 1963-1970

OCTOBER  
TABLE 18

AREA 0022 S.E. PERSIAN GULF  
26.2N 54.8E

PCT FREQ D: WIND SPEED (KTS) AND DIRECTION VCRSUS SEE HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	3.8	.0	.0	.0	.0	3.8
1-2	.7	.0	.0	.0	.0	.0	.7	.9	.9	.2	.0	.0	.0	2.0
3-4	.0	.9	.0	.0	.0	.0	.9	.0	.9	.9	.0	.0	.0	1.8
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.2
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.7	.9	.0	.0	.0	.0	1.6	.9	5.9	1.1	.0	.0	.0	7.9

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	4.1	.0	.0	.0	.0	4.1	1.8	2.0	.9	.0	.0	.0	4.7
1-2	.9	2.7	.7	.0	.0	.0	4.3	.0	1.8	.0	.0	.0	.0	1.8
3-4	.0	.9	.0	.0	.0	.0	.9	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.7	.0	.0	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.9	8.3	.7	.0	.0	.0	9.9	1.8	5.8	.5	.0	.0	.0	6.5

PERIOD: (PRIMARY)  
(OVER-ALL) 1963-1970

AREA 0022 S. E. PERSIAN GULF  
26.2N 54.8E

UCTOSER  
TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.9	.7	.0	.0	.0	.0	1.6	.9	2.9	.0	.0	.0	.0	3.3
1-2	.0	.7	.7	.0	.0	.0	1.4	.2	7.4	.7	.0	.0	.0	8.3
3-4	.0	.7	.0	.0	.0	.0	.7	.0	1.4	1.8	.0	.0	.0	3.2
5-6	.0	.0	.9	.0	.0	.0	.9	.0	.0	.9	.0	.0	.0	.9
7	.0	.0	.9	.0	.0	.0	.9	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.9	2.0	2.5	.0	.0	.0	5.4	1.1	11.7	3.4	.0	.0	.0	16.2

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.9	5.4	.0	.0	.0	.0	6.3	.9	4.5	.0	.0	.0	.0	5.4
1-2	2.5	13.2	5.0	.0	.0	.0	19.6	.2	2.3	.9	.0	.0	.0	3.1
3-4	.0	.0	7.0	.0	.0	.0	10.4	.0	.0	2.9	.0	.0	.0	3.8
5-6	.0	.0	2.5	.0	.0	.0	2.5	.0	.0	.2	.0	.0	.0	.2
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.9	.0	.0	.0	.9
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	3.4	20.9	14.4	.0	.0	.0	38.7	1.1	7.7	5.0	.0	.0	.0	13.7



PERIOD: (PRIMARY)  
(OVER-ALL) 1963-1970

OCTOBER

TABLE 18 (CONT)

HGT	WIND SPEED (KTS) VS SEA HEIGHT (FT)							TOT OBS
	0-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	23.7	18.7	.7	.0	.0	.0	43.2	139
1-2	5.0	22.3	6.5	.0	.0	.0	33.8	
3-4	.0	7.2	10.1	.0	.0	.0	17.3	
5-6	.0	.7	3.9	.0	.0	.0	4.3	
7	.0	.0	.7	.0	.0	.0	.7	
8-9	.0	.0	.7	.0	.0	.0	.7	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	28.8	48.9	22.3	.0	.0	.0	100.0	

AREA 0022 S. E. PERSIAN GULF  
26.2N 54.0E

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	11-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	11.7	26.3	11.5	1.8	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	198
6-7	.0	1.0	2.6	1.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	21
8-9	.0	.3	.5	.8	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7
10-11	.0	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1
12-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
15-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
INDET	34.1	6.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	157
TOTAL	176	129	53	17	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	384
PCT	43.8	33.6	13.4	4.4	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0

PERIOD: (PRIMARY) 1947-1970  
(OVER-ALL) 1865-1970

NOVEMBER

AREA 0022 S. S. PERSIAN GULF  
20.1N 54.7E

TABLE 1  
PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	RAIN	RAIN SHR	DRZL	PRECIPITATION TYPE			HAIL	PCT FREQ PCPN AT DB TIME	TOTAL PCPN DBS	THOR LTNG	OTHER WEATHER PHENOMENA					TOTAL OBS
				PCPN	FRZN	SNOW					PCPN	MO	HAZE	BLWG	SNOW	
N	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	34
NE	.5	.1	.0	.0	.0	.0	.0	.0	2	.5	.0	.0	.0	.0	.0	69
E	.1	.2	.0	.0	.0	.0	.0	.0	1	.3	.0	.0	.2	.0	.0	71
SE	.0	.0	.0	.0	.0	.0	.0	.0	0	.2	.0	.0	.2	.0	.0	16
S	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.2	.0	.0	17
SW	.0	.0	.0	.0	.0	.0	.0	.0	0	.2	.0	.0	.0	.0	.0	24
W	.0	.0	.0	.0	.0	.0	.0	.0	0	.2	.0	.0	.0	.0	.0	100
NW	.0	.0	.0	.0	.0	.0	.0	.0	0	.2	.0	.0	.0	.0	.0	53
VAR	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	81
TOT OBS	.3	.1	.0	.0	.0	.0	.0	.0	4	.8	.0	.0	.3	.0	.1	473
TOT PCT	.6	.2	.0	.0	.0	.0	.0	.0	.8	1.7	.0	.0	.6	.0	.2	100.0

TABLE 2  
PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	RAIN	RAIN SHR	DRZL	PRECIPITATION TYPE			HAIL	PCT FREQ PCPN AT DB TIME	TOTAL PCPN DBS	THOR LTNG	OTHER WEATHER PHENOMENA					TOTAL OBS
				PCPN	FRZN	SNOW					PCPN	MO	HAZE	BLWG	SNOW	
0003	.0	.0	.0	.0	.0	.0	.0	.0	0	1.8	.0	.0	.9	.0	.0	113
0609	1.4	.0	.0	.0	.0	.0	.0	1.4	2	2.1	.0	.0	.0	.0	.7	145
1215	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	1.5	.0	.0	136
1821	.9	.9	.0	.0	.0	.0	.0	1.7	2	2.6	.0	.0	.0	.0	.0	116
TOT	.3	.1	.0	.0	.0	.0	.0	.8	4	.8	.0	.0	.3	.0	.1	497
PCT	.6	.2	.0	.0	.0	.0	.0	.8	.8	1.6	.0	.0	.6	.0	.2	100.0

# NOVEMBER

PERIOD: (PRIMARY) 1947-1970  
(OVER-ALL) 1903-1970

AREA 0022 S. E. PERSIAN GULF  
26.1N 54.7E

TABLE 3

## PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47	48+	00				03	06	09	12	15	18	21
N	2.7	4.6	.8	.0	.0	.0	40	8.1	5.6	8.6	13.3	9.9	3.3	5.8	6.3	6.1	22.5
NE	2.4	8.9	3.5	.3	.0	.0	84	14.7	8.0	13.1	30.0	20.1	25.8	11.0	24.0	9.8	17.5
E	2.4	6.6	5.5	.3	.0	.0	85	14.9	9.4	8.7	26.7	21.6	29.2	14.4	9.4	8.2	19.0
SE	.7	2.1	.3	.0	.0	.0	18	3.1	6.1	4.2	3.3	2.6	1.7	4.0	2.1	2.8	.0
S	1.1	1.5	.8	.0	.0	.0	19	3.4	6.6	2.2	.0	3.5	1.7	6.9	.0	2.6	.0
SW	1.1	3.3	1.4	.0	.0	.0	33	5.8	7.1	3.5	3.3	2.8	2.5	11.2	12.5	4.2	10.0
W	3.0	13.2	4.7	.0	.0	.0	120	20.9	7.8	23.9	16.7	14.9	9.2	20.8	27.1	28.2	20.0
NW	2.1	5.8	4.0	.3	.0	.0	70	12.2	8.8	18.8	3.3	7.3	6.7	6.7	12.5	19.4	20.0
VAR	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	16.8	264	119	4	0	0	96	16.8	.0	15.9	13.3	17.2	20.0	19.2	4.2	18.7	5.0
TOT OBS	186	46.1	20.8	.7	.0	.0	573	100.0	6.6	113	115	134	30	130	24	107	20
TOT PCT	32.5	46.1	20.8	.7	.0	.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)							41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-4	5-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ					00	03	06	09	12	15	18
N	5.8	2.2	.2	.0	.0	46	8.1	.0	46	5.6	5.6	9.2	8.7	6.7	6.2	8.7	8.7	8.7
NE	6.7	7.4	.7	.0	.0	84	14.7	.0	84	8.0	8.0	13.9	21.2	13.0	13.0	9.4	9.4	9.4
E	5.4	8.3	1.2	.0	.0	85	14.9	.0	85	9.4	9.4	11.7	23.0	13.6	13.6	14.4	14.4	14.4
SE	2.3	.7	.2	.0	.0	18	3.1	.0	18	6.1	6.1	4.1	2.4	2.7	2.4	2.4	2.4	2.4
S	2.3	.9	.2	.0	.0	19	3.4	.0	19	6.6	6.6	2.0	3.2	3.8	3.8	2.2	2.2	2.2
SW	3.4	2.4	.2	.0	.0	33	5.8	.0	33	7.1	7.1	3.5	2.7	11.4	11.4	5.1	5.1	5.1
W	10.5	8.9	1.2	.0	.0	120	20.9	.0	120	7.8	7.8	23.0	13.9	21.8	21.8	27.0	27.0	27.0
NW	5.8	5.2	1.0	.2	.0	70	12.2	.0	70	8.8	8.8	17.0	7.3	7.6	7.6	19.5	19.5	19.5
VAR	.0	.0	.0	.0	.0	0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	16.8	264	119	4	0	96	16.8	.0	96	.0	.0	15.6	17.7	16.9	16.9	16.9	16.9	16.9
TOT OBS	338	206	28	1	0	573	100.0	.2	573	6.6	6.6	128	164	154	154	127	127	127
TOT PCT	59.0	36.0	4.9	.2	.0	100.0	100.0	.2	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

NOVEMBER  
 PERIOD: (PRIMARY) 1947-1970  
 (OVER-ALL) 1865-1970  
 AREA 0022 S. E. PERSIAN GULF  
 26.1N 56.7E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)									
HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT TOTAL OBS
				11-21	22-33	34-47			
0000	15.6	14.8	49.2	20.3	.0	.0	.0	6.3	100.0
0600	17.7	15.2	45.1	21.3	.6	.0	.0	6.8	100.0
1200	16.0	21.4	42.2	18.8	.6	.0	.0	6.0	100.0
1800	16.5	10.2	48.8	22.3	1.6	.0	.0	7.2	100.0
TOT	96	90	264	119	.4	.0	.0	6.6	573
PCT	16.8	15.7	46.1	20.8	.7	.0	.0	100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (HEIGHTS) BY WIND DIRECTION									
WIND DIR	0-2	3-4	5-7	8 &	OBS	TOTAL	MEAN CLOUD COVER		OBS
							COVER	COVER	
N	6.5	.9	.6	.0	35	35	1.2	1.2	
NE	11.1	1.5	.7	.7	60	60	1.3	1.3	
E	2.1	1.8	2.2	.5	58	58	1.9	1.9	
SE	2.3	.5	.4	.0	13	13	1.5	1.5	
S	3.2	.2	.5	.0	17	17	1.6	1.6	
SW	3.8	.6	.6	.0	21	21	1.5	1.5	
W	19.2	1.6	1.0	.4	96	96	1.1	1.1	
NW	11.3	1.2	.5	.1	56	56	.8	.8	
VAR	.0	.0	.0	.0	0	0	.0	.0	
CALM	14.4	1.6	.7	.2	73	73	.9	.9	
TOT OBS	369	43	31	9	432	432	1.2	1.2	
TOT PCT	80.8	10.0	7.2	2.1	100.0	100.0			

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, MH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION													
WIND DIR	000	149	150	299	300	599	600	999	1000	2000	3499	4999	TOTAL
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	35
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	60
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	58
SE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	13
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	17
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	21
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	96
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	56
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	73
TOT OBS	0	0	0	0	0	0	0	0	0	0	0	0	432
TOT PCT	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0

PERIOD: (PRIMARY) 1947-1970  
(OVER-ALL) 1865-1970

NOVEMBER

AREA 0022 S. E. PERSIAN GULF  
26.1N 54.7E

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE  
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	OR >10	OR >5	OR >2	OR >1	OR >1/2	OR >1/4	OR >50YD	OR >0
OR >500	.2	.2	.2	.2	.2	.2	.2	.2
OR >500	.6	.6	.6	.6	.6	.6	.6	.6
OR >500	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
OR >2000	1.9	2.2	2.2	2.2	2.2	2.2	2.2	2.2
OR >1000	3.0	3.2	3.2	3.2	3.2	3.2	3.2	3.2
OR >600	3.2	3.7	3.7	3.7	3.7	3.7	3.7	3.7
OR >300	3.2	3.7	3.7	3.7	3.7	3.7	3.7	3.7
OR >150	3.2	3.7	3.7	3.7	3.7	3.7	3.7	3.7
OR >0	3.2	3.7	3.7	3.7	3.7	3.7	3.7	3.7
TOTAL	15	17	17	17	17	17	17	17

TOTAL NUMBER OF OBS: 464

PCT FREQ NH <5/8: 96.3

TABLE 1A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	OBSCD	TOTAL
	67.1	16.9	7.0	2.3	1.9	2.3	.8	.2	1.0	.0	486

PERIOD: (PRIMARY) 1947-1970  
(OVER-ALL) 1865-1970

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AREA 0022 S. E. PERSIAN GULF  
26.1N 54.7E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF  
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
PCP	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NO PCP	.3	.0	.4	.0	.0	.0	.0	.0	.0	.0	.4	.4
TOT %	.3	.0	.4	.0	.0	.0	.0	.0	.0	.0	.4	
PCP	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NO PCP	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT %	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
PCP	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NO PCP	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT %	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
PCP	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NO PCP	.3	.0	.4	.0	.0	.0	.0	.0	.0	.0	.4	.4
TOT %	.3	.0	.4	.0	.0	.0	.0	.0	.0	.0	.4	.4
PCP	.3	.5	.1	.0	.0	.0	.0	.0	.0	.0	.6	.6
NO PCP	.3	1.0	2.3	.1	.3	.4	.7	1.2	.0	1.1	7.6	7.6
TOT %	.3	1.5	2.4	.1	.3	.4	.7	1.2	.0	1.1	8.2	8.2
PCP	.3	.1	.2	.0	.0	.0	.0	.0	.0	.0	.2	.2
NO PCP	6.7	12.7	11.6	3.4	3.3	4.8	20.5	11.2	.0	16.1	90.5	90.5
TOT %	6.7	12.8	11.8	3.4	3.3	4.8	20.5	11.2	.0	16.1	90.5	90.5
TOT OBS												473
TOT PCT	7.3	14.7	15.0	3.4	3.6	5.2	21.2	12.3	.0	17.1	100.0	

NOVEMSEP

PERIOD: (PRIMARY) 1947-1970  
(OVER-ALL) 1865-1970AREA 0022 S. E. PERSIAN GULF  
26.1N 54.7E

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED  
WITH VARYING VALUES OF VISIBILITY

VSAY (NM)	SPO KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.2	.2
	11-21	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.2	.2
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.4	.4
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
2<5	0-3	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.2	.2
	4-10	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.4	.4
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.2	.4	.4	.0	.0	.0	.0	.0	.0	.0	.9	.9
5<10	0-3	.3	.1	.4	.1	.1	.3	.3	.1	.0	.9	2.5	2.5
	4-10	.3	.8	.9	.1	.0	.0	.1	.3	.0	.0	2.7	2.7
	11-21	.0	.0	1.1	.1	.2	.1	.3	.4	.0	.0	2.7	2.7
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.3	1.5	2.5	.2	.3	.4	.6	1.0	.0	.9	7.9	7.9
10+	0-3	2.4	2.4	1.9	.7	1.0	.9	2.6	2.1	.0	16.0	30.0	30.0
	4-10	3.9	7.8	5.7	2.1	1.5	3.0	13.1	5.0	.0	.0	42.0	42.0
	11-21	.8	2.8	4.2	.3	.7	1.1	4.6	3.7	.0	.0	18.1	18.1
	22+	.0	.0	.3	.0	.0	.0	.0	.4	.0	.0	.7	.7
	TOT %	7.1	13.0	12.1	3.0	3.2	4.9	20.3	11.2	.0	16.0	90.8	90.8
	TOT OBS												557
	TOT PCT	7.8	14.9	15.3	3.2	3.3	5.3	20.9	12.2	.0	16.9	100.0	

NOVEMBER

PERIOD: (PRIMARY) 1947-1970  
(OVER-ALL) 1865-1970

AREA 0023 S. E. PERSIAN GULF  
26.1N 54.7E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH > 4/8) AND  
OCCURRENCE OF NH < 5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	5500 7999	8000+	TOTAL	NH < 5/8 ANY HGT	TOTAL OBS
00003	.0	.0	.0	.0	.9	.9	.0	.0	.0	.0	1.9	98.1	104
06009	.0	.0	.0	.7	2.2	.7	.7	.7	.0	.0	5.1	94.9	137
12015	.0	.0	.0	.8	.8	1.6	.0	.0	.0	.0	3.1	96.9	129
18021	.0	.0	.0	.0	.0	.9	.9	.9	.0	.9	3.6	96.4	110
TOT PCT	.0	.0	.0	.2	1.0	5	2	2	.0	.2	17	463	482
	.0	.0	.0	.4	1.0	1.0	.4	.4	.0	.0	3.5	96.5	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	< 1/2	1/2-1	1-2	2-5	5-10	10+	TOTAL OBS
00003	.0	.0	.0	.0	5.8	94.2	104
06009	.7	.0	.0	.0	5.2	94.0	134
12015	.8	.0	.0	.0	2.5	96.7	120
18021	.0	.0	.0	1.9	4.7	93.4	106
TOT PCT	2 .4	0 .0	0 .0	2 .4	21 4.5	439 94.6	464 100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR  
CEILING HGT (FEET, NH > 4/8) BY HOUR

HOUR (GMT)	< 150 < 500	< 600 < 1	< 1000 < 5	1000+ AND 5+	NH < 5/8 AND 5+	TOTAL OBS
00003	.0	.0	.0	1.9	98.1	104
06009	.0	.7	1.5	4.5	94.0	134
12015	.0	.8	1.7	2.5	95.8	120
18021	.0	.0	1.9	3.8	94.3	106
TOT PCT	0 .0	2 .4	6 1.3	13 3.2	443 93.5	464 100.0



NOVEMBER

PERIOD: (PRIMARY) 1947-1970  
(OVER-ALL) 1865-1970

AREA 0022 S. E. PERSIAN GULF  
26.1N 54.7E

TABLE 13

TEMP F	PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP										TOTAL OBS	PCT FREQ
	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100				
95/99	.0	.0	.3	.3	.0	.0	.0	.0	.0	.0	2	.5
90/94	.0	.0	.5	1.1	.0	.0	.0	.0	.0	.0	6	1.6
85/89	.0	.0	1.1	4.0	5.0	4.5	.3	.0	.0	.0	36	14.9
80/84	.0	.0	1.9	8.0	14.6	10.3	4.2	.8	.0	.0	56	39.8
75/79	.0	.0	2.4	8.0	10.1	10.9	4.5	1.3	.0	.0	150	39.1
70/74	.0	.0	.8	1.1	1.6	1.1	.8	.8	.0	.0	140	37.1
TOTAL	0	0	26	84	118	101	37	11			377	100.0
PCT	.0	.0	6.9	22.3	31.3	26.8	9.8	2.9				

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP											
N	NE	E	SE	S	SW	W	NW	VAR	CALM		
.0	.3	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0
.0	.6	.2	.0	.1	.5	.2	.0	.0	.0	.0	.0
1.0	.9	1.1	.5	.8	1.1	4.7	2.2	.0	.0	.0	.0
3.8	4.5	5.4	1.3	2.4	2.7	10.3	3.6	.0	.0	.0	.0
3.5	4.6	5.2	1.2	.7	1.1	6.4	5.9	.0	.0	.0	.0
.7	1.7	1.8	.0	.0	.0	.6	1.1	.0	.0	.0	.0
.3	4.7	.52	1.1	15	19	83	48	.0	.0	.0	.0
9.0	12.5	13.9	3.1	4.0	5.2	22.2	12.8	.0	.0	.0	.0

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR											
HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS		
0000	85	84	84	79	73	70	70	79.0	137		
0600	97	93	88	81	73	71	71	81.0	169		
1200	95	94	89	82	75	72	72	82.5	168		
1800	85	84	84	79	73	70	70	79.1	135		
TOT	97	93	87	80	74	71	70	80.5	609		

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR											
HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS	
0000	.0	22.1	37.9	29.5	10.5	.0	.0	.0	67	75	
0600	.0	27.6	29.3	25.9	12.1	5.2	.0	.0	68	116	
1200	.0	38.9	32.4	18.5	6.5	3.7	.0	.0	64	108	
1800	.0	24.7	34.4	29.0	7.5	4.3	.0	.0	67	193	
TOT	0	118	137	105	38	14	.0	.0	66	412	

PERIOD: (PRIMARY) 1967-1970  
(OVER-ALL) 1865-1970

NOVEMBER

AREA: 0022 S. E. PERSIAN GULF  
26.1N 54.7E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)  
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TEMP DIF	69	73	77	81	85	89	93	96	TOT	W FOG	WD FOG
11/13	.0	.0	.0	.0	.0	.0	.2	.2	1	.0	.2
9/10	.0	.0	.0	.0	.2	.0	.0	.2	2	.0	.5
7/8	.0	.0	.0	.0	.5	.2	.5	.5	5	.0	1.2
6	.0	.0	.0	.2	.0	.7	.2	.2	5	.0	1.2
5	.0	.0	.0	.5	.5	.0	.0	.0	4	.0	.7
4	.0	.0	.0	.2	1.4	.2	.2	.0	9	.0	2.1
3	.0	.0	.7	2.1	1.9	.2	.0	.0	21	.0	4.9
2	.0	.0	.9	2.8	2.6	.0	.0	.0	27	.0	6.3
1	.0	.2	.7	1.9	3.0	.2	.0	.0	26	.0	6.1
0	.0	.3	1.4	5.6	2.6	.0	.0	.0	41	.0	9.6
-1	.0	.5	5.9	4.7	1.2	.0	.0	.0	52	.0	12.2
-2	.0	1.4	6.3	4.7	1.4	.0	.0	.0	59	.0	13.8
-3	.0	1.4	5.2	3.3	.2	.0	.0	.0	43	.0	10.1
-4	.2	3.0	6.3	1.9	.2	.0	.0	.0	50	.0	11.7
-5	.2	2.6	4.7	1.4	.5	.0	.0	.0	40	.0	9.4
-6	.9	2.1	1.2	.0	.0	.0	.0	.0	18	.0	4.2
-7/-8	.7	2.1	.7	.3	.0	.0	.0	.0	17	.0	4.0
-9/-10	.2	1.2	.2	.0	.0	.0	.0	.0	7	.0	1.6
TOTAL	10	62	146	127	69	.7	.6	.6	427	.0	427
PCT	2.3	14.5	34.2	29.7	16.2	1.6	1.4	1.4	100.0	0	100.0

PERIOD: (PRIMARY) NOVEMBER  
 (OVER-ALL) 1963-1970  
 AREA 0022 S. E. PERSIAN GULF  
 26.1N 54.7E  
 TABLE 18  
 PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.0	1.0	.0	.0	.0	.0	2.0	3.3	3.0	.0	.0	.0	.0	6.3
1-2	.0	.0	.0	.0	.0	.0	4.0	.0	4.5	1.3	.0	.0	.0	5.8
3-4	.0	.0	.0	.0	.0	.0	.0	.0	3.0	4.3	.0	.0	.0	7.3
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.0	5.1	.0	.0	.0	.0	6.1	3.3	10.6	5.6	.0	.0	.0	19.4

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	2.8	1.0	.0	.0	.0	.0	3.8	.0	.3	.0	.0	.0	.0	.3
1-2	.8	2.5	2.8	.0	.0	.0	6.1	.3	1.3	.0	.0	.0	.0	1.5
3-4	1.0	2.0	5.8	.0	.0	.0	8.6	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	3.0	.0	.0	.0	3.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	4.5	5.6	11.6	.0	.0	.0	21.7	.3	1.5	.0	.0	.0	.0	1.8

NOVEMBER  
TABLE 18  
AREA 0022 S. E. PERSIAN GULF  
26.1N 34.7E

PERIOD: (PRIMARY)  
(OVER-ALL) 1963-1970

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.8	.0	.0	.0	.0	1.8	1.0	.3	.0	.0	.0	.0	1.3
1-2	.0	1.8	.0	.0	.0	.0	1.8	.0	1.8	.0	.0	.0	.0	2.0
3-4	.0	.0	1.8	.0	.0	.0	1.8	.0	1.0	1.5	.0	.0	.0	2.5
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	3.5	1.8	.0	.0	.0	5.3	1.0	3.0	1.8	.0	.0	.0	5.8

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	3.0	4.5	1.0	.0	.0	.0	8.6	1.3	.3	1.0	.0	.0	.0	3.3
1-2	1.0	9.1	2.5	.0	.0	.0	12.6	1.0	4.3	1.3	.0	.0	.0	5.6
3-4	.0	3.0	2.3	.0	.0	.0	5.3	.0	1.0	1.5	.0	.0	.0	2.7
5-6	.0	1.0	1.0	.0	.0	.0	2.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	4.0	17.7	6.8	.0	.0	.0	28.5	3.0	5.6	2.8	.0	.0	.0	11.4

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26.1N 54.7E

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PERIOD: (PRIMARY)  
(OVER-ALL): 1963-1970

TABLE 18 (CONT)

WIND SPEED (KTS) VS SEA HEIGHT (FT)								TOT OBS
HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	28.7	10.7	1.6	.0	.0	.0	41.0	
1-2	2.5	23.8	5.7	.0	.0	.0	32.0	
3-4	.8	8.2	13.9	.0	.0	.0	23.0	
5-6	.0	.8	3.3	.0	.0	.0	4.1	
7	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	32.0	43.4	24.6	.0	.0	.0	100.0	122

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	10.9	25.6	12.5	3.5	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	166
6-7	.0	.6	2.9	2.2	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	19
8-9	.0	.3	.6	.6	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4
10-11	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5
12-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
IMOET	27.6	8.0	1.6	.3	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
TOTAL	120	108	55	22	5	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	119
PCT	38.5	34.6	17.6	7.1	1.6	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	312
																					100.0

DECEMBER

AREA 0022 S. E. PERSIAN GULF  
26.0N 54.7E

PERIOD: (PRIMARY) 1948-1970  
(OVER-ALL) 1885-1970

TABLE 1

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	RAIN	RAIN SHWR	ORZL	PRECIPITATION TYPE				HAIL	PCT FREQ PCPN AT OBS TIME	TOTAL PCPN OBS	THOR				OTHER WEATHER PHENOMENA				TOTAL OBS
				FRZG	SNOW	OTHER	PCPN				LTNG	PCPN	FOG	SMOKE	HAZE	BLWG	DUST	SIG	
N	.2	.2	.0	.0	.0	.0	.0	.0	.4	.2	.3	.0	.0	.0	.0	.0	.0	10.4	61
NE	.1	.0	.0	.0	.0	.0	.0	.0	.1	0	.1	.0	.0	.4	.0	.4	.0	12.7	76
E	.1	.2	.0	.0	.0	.0	.0	.0	.3	1	.2	.0	.0	.2	.0	.0	.0	9.5	57
SE	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	3.2	18
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	1.9	11
SW	.0	.0	.0	.0	.0	.0	.0	.0	.2	1	.0	.0	.0	.0	.0	.0	.0	5.2	20
W	.0	.2	.0	.0	.0	.0	.0	.0	.4	2	.0	.0	.0	.0	.0	.0	.1	21.3	124
NW	.2	.0	.0	.0	.0	.0	.0	.0	.2	1	.2	.0	.3	.0	.0	.2	.0	16.7	98
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.2	.0	.0	.0	13.2	87
TOT OBS	3	3	2	2	2	2	2	2	.0	8	4	4	4	4	4	4	4	542	565
TOT PCT	.5	.5	.4	.4	.4	.4	.4	.4	1.4	.7	.7	.7	.7	.7	.7	.7	.7	95.9	100.0

TABLE 2

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	RAIN	RAIN SHR	ORZL	PRECIPITATION TYPE				HAIL	PCT PREO PCPN AT OB TIME	TOTAL PCPN OBS	THOR LTNG	OTHER WEATHER				PHENOMENA				TOTAL OBS
				FRZG PCPN	SNOW PCPN	OTHER FRZN PCPN	FOG WD PCPN					SMOKE HAZE	BLWG	DUST	SIG	NO WEA				
0003	.7	.0	.0	.0	.0	.0	.0	.0	.7	1	.7	.0	.7	.7	.7	.7	.7	.7	97.2	142
0609	.0	.0	.0	.0	.0	.0	.0	.0	1.2	2	1.2	1.2	2.5	.0	.0	.0	.0	.0	94.4	161
1215	.0	1.8	.0	.0	.0	.0	.0	.0	2.4	4	.0	.0	.0	.0	.0	1.2	93.9	170		
1821	.8	.0	.0	.0	.0	.0	.0	.0	.8	1	.8	.8	.0	.0	.0	.0	.0	.0	96.6	119
TOT	3	3	2	2	2	2	2	2	1.4	8	4	4	5	5	5	4	368	592		
PCT	.5	.5	.3	.3	.3	.3	.3	.3	1.4	.7	.7	.7	.8	.7	.7	.7	.7	.7	95.9	100.0

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PERIOD: (PRIMARY) 1948-1970  
(OVER-ALL) 1888-1970

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26.0N 56.7E

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)										HOUR (GMT)				
	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD		00	03	06	09	12
N	1.6	7.6	1.5	.1	.0	.0	71	10.8	7.5		12.9	6.8	12.6	6.0	8.2
NE	1.9	7.4	4.3	.5	.0	.0	92	14.1	9.1		11.1	25.0	17.2	20.0	15.0
E	1.2	4.9	2.8	.3	.0	.0	60	9.2	9.0		9.2	9.1	9.9	4.0	13.3
SE	.6	2.1	.4	.0	.0	.0	20	3.2	6.3		4.5	2.3	5.4	.0	2.8
S	.7	2.0	.1	.2	.0	.0	19	3.0	6.2		2.9	15.9	2.6	10.0	1.7
SW	1.6	2.3	1.1	.2	.0	.0	34	5.2	7.5		2.7	.0	5.1	24.0	6.2
W	2.2	12.2	6.0	1.5	.0	.0	143	21.8	9.8		22.0	20.5	15.5	24.0	23.3
NW	1.3	10.2	4.9	.6	.0	.0	112	17.1	9.5		20.3	11.4	16.8	8.0	11.9
VAR	.0	.0	.0	.0	.0	.0	0	.0	.0		.0	.0	.0	.0	.0
CALM	15.7	32.0	14.0	22	.0	.0	103	15.7	7.4		15.4	.0	15.0	4.0	15.4
TOT OBS	175	486	213	33	.0	.0	658				149	22	147	23	162
TOT PCT	26.7	72.6	32.4	5.0	.0	.0	100.0				100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)										HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD			00	03	06	09	12
N	5.0	4.6	.0	.0	.0	71	10.8	7.9			12.1	11.6	11.6	7.9	11.9
NE	5.6	7.4	1.1	.0	.0	92	14.1	9.1			12.9	17.6	14.0	11.4	11.4
E	4.3	3.9	.8	.0	.0	60	9.2	9.0			8.3	9.0	11.9	7.1	7.1
SE	2.0	1.1	.0	.0	.0	20	3.2	6.3			4.2	4.7	2.5	.7	.7
S	2.4	.3	.0	.0	.0	19	3.0	6.2			4.5	3.6	2.6	.6	.6
SW	3.6	2.0	.4	.0	.0	34	5.2	7.5			2.3	7.8	5.8	4.3	4.3
W	8.4	10.3	3.0	.2	.0	143	21.8	9.8			21.8	16.7	25.4	23.5	23.5
NW	6.7	7.6	2.8	.0	.0	112	17.1	9.5			19.2	13.6	14.5	20.1	20.1
VAR	.0	.0	.0	.0	.0	0	.0	.0			.0	.0	.0	.0	.0
CALM	15.7	24.5	6.0	2	.0	103	15.7	7.4			14.6	13.4	15.5	20.1	20.1
TOT OBS	351	37.2	9.1	.5	.0	658					171	172	181	134	134
TOT PCT	55.3	56.2	13.8	0.8	.0	100.0					100.0	100.0	100.0	100.0	100.0

AREA 0022 S. E. PERSIAN GULF  
26.0N 54.7E

DECEMBER

PERIOD: (PRIMARY) 1948-1970  
(OVER-ALL) 1885-1970

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	4-10	11-21	22-32	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
0603	14.6	11.1	46.8	25.1	2.3	.0	7.6	100.0	171
0609	13.4	10.5	52.9	19.8	3.5	.0	7.5	100.0	172
12015	13.3	11.0	47.5	21.0	3.0	.0	7.7	100.0	181
18221	20.1	11.7	47.0	18.7	2.2	.0	6.7	100.0	134
TOT	103	73	320	140	22	.0	7.4	100.0	658
PCT	13.7	11.1	48.6	21.2	2.3	.0			

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)  
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8-9	OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	7.4	1.6	1.5	.7		55	2.0
NE	8.6	1.9	2.2	1.0		68	2.3
E	6.6	1.2	2.2	.4		21	2.3
SE	2.6	.5	.6	.0		17	1.7
S	.8	.6	.0	.2		7	2.4
SW	4.3	.1	.1	.0		22	.8
W	15.0	2.7	2.3	.6		102	1.8
NW	13.2	2.3	1.4	.6		86	1.6
VAR	.0	.0	.0	.0		0	.0
CALM	13.1	2.0	1.4	.2		83	1.1
TOT OBS	236	63	58	18		495	1.7
TOT PCT	71.9	12.7	11.7	3.6		100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT) BY WIND DIRECTION  
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8-9	OBSCD	TOTAL OBS	MEAN CEILING HEIGHT
N	7.4	1.6	1.5	.7		55	10.0
NE	8.6	1.9	2.2	1.0		68	12.3
E	6.6	1.2	2.2	.4		21	9.7
SE	2.6	.5	.6	.0		17	3.4
S	.8	.6	.0	.2		7	1.4
SW	4.3	.1	.1	.0		22	4.4
W	15.0	2.7	2.3	.6		102	18.8
NW	13.2	2.3	1.4	.6		86	16.6
VAR	.0	.0	.0	.0		0	.0
CALM	13.1	2.0	1.4	.2		83	16.8
TOT OBS	236	63	58	18		495	14.62
TOT PCT	71.9	12.7	11.7	3.6		100.0	93.3



PERIOD: (PRIMARY) 1948-1970  
(OVER-ALL) 1985-1970

DECEMBER

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TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE  
OF CEILING HEIGHT (NH > 4/8) AND VS8Y (NH)

CEILING (FEET)	OR >10	OR >5	OR >2	OR >1	VS8Y (NH)	GP >1/2	OR >1/4	OR >50YD	CR >0
OR >6500	.2	.2	.2	.2	.2	.2	.2	.2	.2
OR >5000	.6	.6	.6	.6	.6	.6	.6	.6	.6
OR >3500	.8	1.0	1.2	1.2	1.2	1.2	1.2	1.2	1.2
OR >2000	3.3	3.7	3.9	3.9	3.9	3.9	3.9	3.9	3.9
OR >1000	4.7	5.1	5.5	5.5	5.5	5.5	5.5	5.5	5.5
OR >800	5.1	5.7	6.1	6.1	6.1	6.1	6.1	6.1	6.1
OR >600	5.5	6.3	6.7	6.7	6.7	6.7	6.7	6.7	6.7
OR >400	5.7	6.5	6.8	6.8	6.8	6.8	6.8	6.8	6.8
OR >150	5.7	6.5	6.8	6.8	6.8	6.8	6.8	6.8	6.8
OR >0	5.7	6.5	6.8	6.8	6.8	6.8	6.8	6.8	6.8
TOTAL	29	33	35	35	35	35	35	35	35

TOTAL NUMBER OF OBS: 511

PCT FREQ NH < 5/8: 93.2

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	9	TOTAL
53.9	19.3	9.8	6.4	3.1	1.3	3.3	1.3	1.6	.0	94.0

MEXICO (PRIMARY: 1948-1970  
(OVER-ALL: 1943-1970

DECEMBER

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TABLE 8  
PERCENT FREO OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF  
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
2<5	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.2
NO PCP	.0	.4	.3	.0	.0	.0	.0	.2	.0	.0	.2	1.1
TOT %	.0	.5	.2	.0	.0	.0	.0	.2	.0	.0	.2	1.2
5<10	.2	.0	.2	.0	.0	.2	.2	.0	.0	.0	.0	.7
NO PCP	1.0	2.1	1.8	* .1	.3	2.1	1.8	.0	.0	.5	9.7	
TOT %	1.2	2.1	2.0	* .1	.4	2.3	1.8	.0	.0	.5	10.4	
10<	.2	.0	.0	.0	.0	.0	.2	.2	.0	.0	.0	.5
NO PCP	9.5	11.0	7.9	3.2	1.9	5.0	19.4	15.3	.0	14.7	87.8	
TOT %	9.6	11.0	7.9	3.2	1.9	5.0	19.6	15.5	.0	14.7	88.3	
TOT OBS	10.8	13.3	10.1	3.2	2.0	5.4	22.0	17.5	.0	15.4	100.0	
TOT PCT												5.5

PERIOD: (PRIMARY) 1948-1970  
(OVER-ALL) 1885-1970

DECEMBER

AREA 0022 S. E. PERSIAN GULF  
26.0N 54.7E

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED  
WITH VARYING VALUES OF VISIBILITY

VISY (M)	SPO (M)	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
0-3	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
4-10	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
11-21	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
22+	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT %	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
2<5	0-3	.0	.1	.0	.0	.0	.0	.0	.0	.0	.2	.3	.3
	4-10	.0	.2	.0	.0	.0	.0	.2	.0	.0	.0	.3	.3
	11-21	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2
	22+	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1
	TOT %	.0	.4	.2	.0	.0	.0	.2	.2	.0	.2	1.1	1.1
5<10	0-3	.1	.2	.0	.0	.0	.2	.1	.0	.0	.5	1.1	1.1
	4-10	1.0	1.1	.7	.0	.2	.2	1.0	.6	.0	.0	4.8	4.8
	11-21	.0	1.0	1.0	.0	.1	.2	.7	1.0	.0	.0	4.0	4.0
	22+	.0	.0	.2	.0	.0	.0	.2	.0	.0	.0	.3	.3
	TOT %	1.1	2.3	1.8	.0	.3	.6	2.0	1.6	.0	.5	10.1	10.1
10+	0-3	1.0	1.7	1.0	.6	.4	1.3	1.9	1.2	.0	15.4	25.0	25.0
	4-10	0.5	6.1	4.4	2.1	1.7	2.1	11.5	9.7	.0	.0	44.1	44.1
	11-21	1.5	3.3	1.5	.4	.0	1.0	5.2	3.9	.0	.0	16.8	16.8
	22+	.4	1.3	.2	.0	.2	.2	1.2	.7	.0	.0	2.9	2.9
	TOT %	9.7	11.4	7.1	3.1	2.3	4.6	19.8	15.5	.0	15.4	88.7	88.7
TOT OBS	TOT OBS	10.3	14.1	9.0	3.1	2.5	5.2	21.9	17.3	.0	16.0	100.0	631
TOT PCT	TOT PCT	10.3	14.1	9.0	3.1	2.5	5.2	21.9	17.3	.0	16.0	100.0	631

PERIOD: (PRIMARY) 1948-1970  
(OVERALL) 1883-1970

DECEMBER

AREA 0022 S. E. PERSIAN GULF  
26.0N 54.7E

TABLE 10  
PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND  
OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	030 199	060 249	090 299	120 349	150 399	180 449	210 499	240 549	270 599	300 649	330 699	360 749	390 799	420 849	450 899	480 949	510 999	TOTAL OBS
00003	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	130
06009	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	150
12015	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	154
18021	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	109
TOT PCT	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	542 100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2-1	1-2	2-5	5-10	10+	TOTAL OBS
00003	.0	.0	.0	.0	.0	.0	119
06009	.0	.0	.0	.0	.0	.0	144
12015	.0	.0	.0	.0	.0	.0	141
18021	.0	.0	.0	.0	.0	.0	107
TOT PCT	.0	.0	.0	.0	.0	.0	511 100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR  
CEILING HGT (FEET, NH >4/8) BY HOUR

HOUR (GMT)	<150 FEET	<600 FEET	<1000 FEET	<1000 FEET AND NH <5/8	<1000 FEET AND NH <5/8 AND 5+	TOTAL OBS
00003	.0	.0	.0	.0	.0	119
06009	.0	.0	.0	.0	.0	144
12015	.0	.0	.0	.0	.0	141
18021	.0	.0	.0	.0	.0	107
TOT PCT	.0	.0	.0	.0	.0	511 100.0

DECEMBER

PERIOD: (PRIMARY) 1948-1970  
(OVER-ALL) 1895-1970

AREA 0022 S. E. PERSIAN GULF  
26.0N 54.7E

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP										
TEMP F	0-24	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
85/39	.0	.0	.0	.0	.5	.2	.0	.0	3	.7
80/34	.0	.2	.5	.5	1.9	1.0	.2	.0	18	4.4
75/29	.0	1.7	2.9	5.1	10.7	12.1	4.9	1.2	159	38.6
70/24	.0	.0	2.4	9.2	15.3	9.7	7.5	1.2	187	45.4
65/19	.0	.0	1.2	2.2	2.7	1.5	1.2	.7	39	9.5
60/14	.0	.0	.0	.2	.5	.7	.0	.0	6	1.5
TOTAL	.0	.8	29	71	130	104	57	13	412	100.0
PCT	.0	1.9	7.0	17.2	31.6	25.2	13.8	3.2		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP										
	N	NE	E	SE	S	SW	W	NW	VAR	CALM
85/39	.0	.0	.0	.2	.0	.0	.0	.2	.0	.2
80/34	.0	.5	1.0	.5	.0	.2	1.2	.7	.0	.2
75/29	4.1	4.1	5.0	1.6	1.0	2.8	8.7	4.1	.0	7.3
70/24	5.6	6.0	4.4	.8	.9	2.4	5.6	8.7	.0	7.8
65/19	.5	1.4	.4	.0	.2	.5	2.9	2.5	.0	1.0
60/14	.3	.5	.0	.0	.0	.0	.0	.7	.0	.0
TOTAL	44	51	44	13	9	24	58	69	0	68
PCT	10.7	12.5	10.7	3.2	2.2	5.9	21.4	16.9	.0	16.5

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR										
HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS	
00003	81	80	78	72	65	63	63	72.0	172	
06009	86	85	81	75	67	62	62	74.6	177	
12015	86	85	82	75	66	64	63	74.9	189	
18021	86	79	77	73	66	63	63	72.4	137	
TOT	86	84	80	74	66	63	62	73.6	675	

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR										
HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS		
00003	.0	19.2	33.3	25.3	18.2	4.0	69	99		
06009	.0	29.8	31.4	21.5	14.9	5.5	66	121		
12015	.0	34.5	26.9	30.3	6.7	1.7	65	119		
18021	.0	17.6	35.2	26.4	16.5	4.4	70	91		
TOT	0	112	135	111	55	13	67	430		

P. RIOD: (PRIMARY) 1948-1970  
(OVER-ALL) 1885-1970

DECEMBER

AREA 0022 S. E. PERSIAN GULF  
26.0N 54.7E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)  
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	61	65	67	73	77	81	85	TOT	W	WD
	64	68	72	76	80	84	88	FOG	FOG	FOG
9/10	.0	.0	.0	.0	.0	.0	.2	1	.0	.2
7/8	.0	.0	.0	.0	.0	.2	.2	3	.0	.6
6	.0	.0	.0	.0	.2	.4	.2	4	.0	.8
5	.0	.0	.0	.2	.0	.4	.0	3	.0	.6
4	.0	.0	.0	.2	.4	.2	.0	4	.0	.8
3	.0	.0	.0	.6	.4	.0	.0	3	.0	.6
2	.0	.0	.0	2.3	1.5	.8	.0	14	.0	2.9
1	.0	.0	.2	4.0	4.6	.8	.0	21	.0	4.4
0	.0	.0	.6	6.0	6.0	.0	.0	46	.2	9.4
-1	.0	.0	1.9	5.8	2.3	.0	.0	43	.0	9.0
-2	.0	.0	1.5	6.3	1.7	.0	.0	45	.2	9.2
-3	.0	.4	1.5	7.5	1.5	.0	.0	46	.0	9.6
-4	.0	.4	3.5	5.4	.4	.0	.0	68	.0	14.2
-5	.2	.6	3.8	1.7	.6	.0	.0	50	.0	10.4
-6	.0	2.5	6.3	2.1	.0	.0	.0	29	.0	6.0
-7/-8	.2	2.5	6.3	2.1	.2	.0	.0	54	.0	11.3
-9/-10	.4	2.9	2.1	.4	.0	.0	.0	28	.0	5.8
-11/-13	.8	1.5	1.0	.0	.0	.0	.0	16	.0	3.3
-14/-16	.0	.4	.0	.0	.0	.0	.0	2	.0	.4
TOTAL	10	45	126	205	76	15	3	480	2	478
PCT	2.1	9.4	26.3	42.7	15.8	3.1	.6	100.0	.4	99.6

PERIOD: (PRIMARY)  
(OVER-ALL) 1983-1970

DECEMBER

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (F1)

HGT	N					NE					48+	PCT
	1-3	4-10	11-21	22-33	34-47	1-3	4-10	11-21	22-33	34-47		
<1	1.0	4.5	.0	.0	.0	1.0	3.2	1.0	.0	.0	.0	PCT
1-2	1.0	5.0	.0	.0	.0	1.0	2.0	1.2	.0	.0	.0	5.2
3-4	.0	1.5	.0	.0	.0	.0	3.0	1.0	.0	.0	.0	4.2
5-6	.0	1.0	.0	.0	.0	.0	1.0	1.2	.0	.0	.0	4.0
7	.0	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	2.2
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.0	11.5	1.0	.0	.0	2.0	9.2	4.5	.0	.0	.0	15.4

HGT	E					SE					48+	PCT
	1-3	4-10	11-21	22-33	34-47	1-3	4-10	11-21	22-33	34-47		
<1	1.0	2.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	PCT
1-2	.0	1.0	.7	.0	.0	.0	1.0	.0	.0	.0	.0	.0
3-4	.0	1.0	1.0	.0	.0	.0	1.0	.2	.0	.0	.0	1.0
5-6	.0	1.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	1.2
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.0	5.4	2.5	.0	.0	.0	2.0	.2	.0	.0	.0	2.2

PERIOD 01 (PRIMARY)  
(OVER-ALL) 1963-1970

DECEMBER  
TABLE 1B

AREA 0022 S. E. PERSIAN GULF  
26.0N 54.7E

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.7	1.0	.0	.0	.0	.0	1.7	.2	1.0	.0	.0	.0	.0	1.2
1-2	.0	.0	.0	.0	.0	.0	.0	.0	2.0	2.0	.0	.0	.0	4.0
3-4	.0	.7	.7	.0	.0	.0	1.5	.0	.2	.0	.0	.0	.0	.2
5-6	.0	.0	.0	.0	.0	.0	.0	.0	1.0	1.0	.0	.0	.0	2.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-46	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.7	1.7	.7	.0	.0	.0	3.2	.2	4.2	3.0	.0	.0	.0	7.4

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.7	2.7	1.0	.0	.0	.0	5.4	.2	2.5	1.0	.0	.0	.0	4.7
1-2	.7	6.4	4.7	.0	.0	.0	11.9	.2	3.5	3.2	.0	.0	.0	6.9
3-4	.0	3.2	4.2	.0	.0	.0	7.4	.0	2.7	.7	.0	.0	.0	3.5
5-6	.0	.0	2.0	1.0	.0	.0	3.0	.0	.0	1.0	.0	.0	.0	1.0
7	.0	1.0	.0	.0	.0	.0	1.0	.0	.0	1.0	.0	.0	.0	1.0
8-9	.0	.0	.0	.7	.0	.0	.7	.0	.0	.0	.2	.0	.0	.2
10-11	.0	.0	.0	.7	.0	.0	.7	.0	.0	.0	.2	.0	.0	.2
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-46	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.5	13.4	11.9	2.5	.0	.0	30.2	1.5	8.7	6.9	.5	.0	.0	17.6



PERIOD (PRIMARY)  
(OVER-ALL) 1963-1970

DECEMBER

AREA 0022 S. E. PERSIAN GULF  
26.0N 54.7E

TABLE 18 (CONT)

HGT	WIND SPEED (KTS) VS SEA HEIGHT (FT)							TOT DWS
	0-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	28.6	12.8	2.3	.0	.0	.0	43.6	
1-2	2.3	16.5	9.0	.0	.0	.0	27.8	
3-4	.0	10.5	6.0	.0	.0	.0	16.5	
5-6	.0	3.0	4.5	.8	.0	.0	8.3	
7	.0	.8	1.5	.0	.0	.0	2.3	
8-9	.0	.0	.0	.8	.0	.0	.8	
10-11	.0	.0	.0	.8	.0	.0	.8	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	30.6	43.6	23.3	2.3	.0	.0	100.0	
							133	

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	9-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<1	6.4	25.8	12.6	4.1	.5	.3	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	195
6-7	.0	1.0	2.6	2.6	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	24
8-9	.0	.0	.5	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6
10-11	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2
12-13	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
INDET	39.5	4.1	2.3	.3	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	158
TOTAL	155	120	70	29	3	1	1	1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	306
PCT	39.9	30.9	18.0	7.5	2.3	.8	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0

PERIOD: (PRIMARY) 1956-1971  
(OVER-ALL) 1864-1971

ANNUAL

AREA 0022 S. E. PERSIAN GULF  
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TABLE 1

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	RAIN SHR	RAIN SHR	OP- L	PRECIPITATION TYPE				HAIL	PCT FREQ PCPN AT DB TIME	TOTAL PCPN OBS	THOR				OTHER WEATHER PHENOMENA				TOTAL OBS
				PCPN	FRZG	SNOW	OTHER				LTNG	MO	HAZE	BLWG	SNOW	NO	HAZE	BLWG	
N	.1	.1	"	.0	.0	.0	.0	.0	.1	9	.1	.1	.2	.1	.1	5.2	.1	.1	372
NE	.2	.1	"	.0	.0	.0	.0	.0	.3	20	.1	.1	.5	.1	.1	8.3	.1	.1	592
E	.1	.1	"	.0	.0	.0	.0	.0	.2	16	.1	.1	1.1	.2	.2	8.7	.2	.2	626
SE	.1	.1	"	.0	.0	.0	.0	.0	.1	3	.1	.1	.5	.1	.1	3.8	.1	.1	279
S	.0	.1	"	.0	.0	.0	.0	.0	.1	1	.1	.1	.6	.2	.2	4.8	.2	.2	356
SW	.1	.1	"	.0	.0	.0	.0	.0	.1	3	.1	.1	1.3	.3	.3	10.8	.8	.8	807
W	.1	.1	"	.0	.0	.0	.0	.0	.1	8	.1	.1	1.8	.8	.8	22.2	.8	.8	1614
NW	.1	.1	"	.0	.0	.0	.0	.0	.1	9	.1	.1	.8	.4	.4	11.2	.4	.4	820
VAR	.0	.0	"	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	0
CALM	.0	.0	"	.0	.0	.0	.0	.0	.1	4	.0	.0	1.2	.3	.3	12.1	.3	.3	863
TOT OBS	46	17	"	0	0	0	0	0	.1	77	36	58	489	157	157	553	157	157	6342
TOT PCT	.7	.2	"	.0	.0	.0	.0	.0	1.1		.6	.9	8.0	2.5	2.5	87.0	2.5	2.5	109.0

TABLE 2

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	RAIN	RAIN SHR	ORZL	PRECIPITATION TYPE				HAIL	PCT FREQ PCPN AT DB TIME	TOTAL PCPN OBS	THOR				OTHER WEATHER PHENOMENA				TOTAL OBS
				PCPN	FRZG	SNOW	OTHER				LTNG	MO	HAZE	BLWG	SNOW	NO	HAZE	BLWG	
00003	1.0	.3	.2	.0	.0	.0	.0	.0	.4	26	.9	.9	7.6	2.1	2.1	87.4	2.1	2.1	1697
06009	.4	.2	.3	.0	.0	.0	.0	.0	.9	17	.3	.3	8.6	2.1	2.1	86.7	2.1	2.1	1813
12015	.4	.3	.2	.0	.0	.0	.0	.0	.9	19	.2	.5	9.6	2.9	2.9	85.9	2.9	2.9	1800
18021	.8	.2	.1	.0	.0	.0	.0	.0	1.2	18	.9	.6	6.4	2.7	2.7	88.3	2.7	2.7	1480
TOT	48	17	16	0	0	0	0	0		80	37	60	531	164	164	5926	164	164	6790
PCT	.6	.2	.2	.0	.0	.0	.0	.0	1.1		.6	.9	8.1	2.5	2.5	87.0	2.5	2.5	100.0

## ANNUAL

PERIOD: (PRIMARY) 1938-1971  
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TABLE 3

## PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)					PCT FREQ	MEAN SPO	HOUR (GMT)					18	21
	0-3	4-10	11-21	22-33	34-47			00	03	06	09	12		
N	1.3	3.3	1.3	.1	*	.0	7.1	6.1	4.9	6.5	2.7	4.7	4.1	5.6
NE	1.5	5.9	1.9	.1	.0	.0	7.5	8.3	12.1	14.5	13.8	8.0	5.7	5.2
E	2.0	5.9	2.2	.1	.0	.0	7.6	8.1	15.6	14.8	13.6	10.5	7.2	7.3
SE	1.0	2.3	.5	*	.0	.0	6.5	4.5	5.0	5.8	5.1	4.7	2.2	3.0
S	1.4	3.4	.9	.1	.0	.0	7.0	6.3	9.0	6.8	6.1	6.9	5.8	3.2
SW	1.9	8.4	2.6	.1	.0	.0	7.8	10.0	9.5	11.4	17.0	13.4	10.0	15.6
W	3.1	14.6	6.5	.8	*	.0	9.0	24.6	19.0	17.4	22.9	26.1	36.2	29.5
NW	1.8	7.1	3.6	.4	*	.0	8.9	15.7	13.5	9.5	9.1	8.3	16.9	16.6
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	13.3	49.6	152.0	151	.6	.0	.0	16.3	11.4	13.2	9.5	11.6	8.4	14.3
TOT OBS	2056	1923	1923	151	.6	.0	7.1	1665	221	1829	394	1760	307	1381
TOT PCT	27.3	51.6	19.3	1.8	.1	.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					41+	TOTAL OBS	PCT FREQ	MEAN SPO	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+					00	03	06	09	12
N	3.1	2.2	.2	*	.0	439	5.6	7.1	6.0	5.7	4.7	4.7	6.2	18
NE	4.5	4.4	.4	*	.0	719	9.4	7.5	9.2	14.3	7.7	7.7	5.6	21
E	5.0	4.7	.3	*	.0	764	10.2	7.6	8.9	14.6	10.0	6.5	6.5	
SE	2.8	1.6	.1	.0	.0	335	4.5	6.5	4.6	5.8	4.3	3.0	3.0	
S	3.5	2.2	.3	*	.0	449	5.9	7.0	6.6	6.7	6.8	3.4	3.4	
SW	6.0	6.3	.6	*	.0	996	13.0	7.8	10.0	12.4	18.0	17.9	17.9	
W	10.0	12.6	2.4	.2	.0	1941	25.2	9.0	23.5	18.4	27.8	32.3	32.3	
NW	3.4	6.0	1.5	.1	.0	1003	13.0	8.9	15.4	9.6	9.7	18.4	18.4	
VAR	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	
CALM	13.3	3092	495	35	0	1001	13.3	.0	15.8	12.6	11.1	13.7	13.7	
TOT OBS	4027	3092	495	35	0	7649	7.1	7.1	1586	2023	2067	1673	1673	
TOT PCT	53.4	40.1	6.1	1.4	.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

ANNUAL  
PERIOD: (PRIMARY) 1938-1971  
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TABLE 4

AREA 0022 S. E. PERSIAN GULF  
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PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				48+	M FAN	PCT FREQ	TOTAL DBS
				11-21	22-33	34-47					
0000	15.8	13.0	48.8	20.7	1.6	.1		.0	7.1	100.0	1886
0600	12.6	13.9	54.0	15.9	1.5	*		.0	6.7	100.0	2023
1200	11.1	14.4	52.8	19.6	2.1	*		.0	7.3	100.0	2067
1800	13.7	12.4	50.4	21.5	1.8	.1		.0	7.4	100.0	1673
TOT	1031	1035	3916	1520	151	6		0	7.1	100.0	7549
PCT	13.3	14.0	51.6	19.3	1.8	.1		.0			

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WIND DIR	PCT FREQ						MEAN CLOUD COVER	TOTAL DBS
	0-2	3-4	5-7	8-6	DBSD			
N	4.3	.6	.4	.4	.4	330	1.4	330
NE	6.7	.7	1.2	.8	.8	526	1.8	526
E	7.2	1.1	1.3	.6	.6	557	1.8	557
SE	3.4	.3	.3	.1	.1	238	1.6	238
S	4.4	.4	.6	.3	.3	317	1.8	317
SW	10.5	.5	.3	.3	.3	713	1.1	713
W	21.2	1.7	1.6	.6	.6	1435	1.0	1435
NW	10.4	1.0	1.0	.5	.5	739	1.2	739
VAR	.0	.0	.0	.0	.0	0	.0	0
CALM	11.8	1.0	.7	.4	.4	775	.9	775
TOT DBS	4454	453	487	239	239	5633	1.3	5633
TOT PCT	80.0	7.8	8.3	4.0	4.0	100.0		

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT) NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WIND DIR	PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT) NH >4/8)												TOTAL DBS
	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8	ANY HGT	
N	.0	.0	.0	.1	.1	.1	.1	.1	.1	.1	.1	.1	330
NE	.0	.0	.0	.1	.1	.1	.1	.1	.1	.1	.1	.1	526
E	.0	.0	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	557
SE	.0	.0	.0	.0	.1	.1	.1	.1	.1	.1	.1	.1	238
S	.0	.0	.0	.0	.1	.1	.1	.1	.1	.1	.1	.1	317
SW	.0	.0	.0	.0	.1	.1	.1	.1	.1	.1	.1	.1	713
W	.0	.0	.0	.1	.1	.1	.1	.1	.1	.1	.1	.1	1435
NW	.0	.0	.0	.1	.1	.1	.1	.1	.1	.1	.1	.1	739
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
CALM	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	775
TOT DBS	10	3	13	40	80	73	42	20	27	58	5257	5633	
TOT PCT	.2	.0	.2	.7	1.3	1.2	.7	.5	.4	1.0	93.7	100.0	

PERIOD: (PRIMARY) 1936-1971  
(OVER-ALL) 1864-1971

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TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE  
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	OR >10	OR >5	OR >2	VSBY (NM) >1	OR >1/2	OR >1/4	OR >50YD	OR >0
OR >6500	1.0	1.3	1.4	1.4	1.4	1.4	1.4	1.4
OR >5000	1.4	1.8	1.9	2.0	2.0	2.0	2.0	2.0
OR >3500	2.0	2.6	2.7	2.7	2.7	2.7	2.7	2.7
OR >2000	2.9	3.8	3.9	4.0	4.0	4.0	4.0	4.0
OR >1000	3.8	5.0	5.2	5.2	5.2	5.2	5.2	5.2
OR >500	4.2	5.6	5.8	5.9	5.9	5.9	5.9	5.9
OR >300	4.3	5.7	6.0	6.1	6.1	6.1	6.1	6.1
OR >150	4.4	5.8	6.1	6.1	6.1	6.1	6.1	6.1
OR >0	4.4	5.8	6.1	6.2	6.2	6.2	6.2	6.2
TOTAL	275	357	383	386	387	388	390	390

TOTAL NUMBER OF OBS: 5967

PCT FREQ NH <5/8: 93.5

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OR SCOD OBS	TOTAL
65.5	13.0	5.9	3.1	1.8	1.6	1.6	1.3	2.1	.2	6369

PERIOD: (PRIMARY) 1938-1971  
(OVER-ALL) 1864-1971

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF  
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

WSBY (NH)	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
NO PCP	.0	*	.1	*	*	*	*	*	.0	*	.2	
TOT %	.0	*	.1	*	*	*	*	*	.0	*	.2	
1/2<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
PCP	*	*	.0	.0	.0	*	.1	*	.0	.0	.1	
NO PCP	*	*	.0	.0	.0	*	.1	*	.0	.0	.1	
TOT %	*	*	.0	.0	.0	*	.1	*	.0	.0	.2	
1<2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
PCP	*	*	.1	.1	.1	.1	.2	.1	.0	.0	.7	
NO PCP	*	*	.1	.1	.1	.1	.2	.1	.0	.0	.7	
TOT %	*	*	.1	.1	.1	.1	.2	.1	.0	.0	.7	
2<5	.0	*	*	.0	*	*	*	*	.0	.0	.1	
PCP	.1	.2	.2	.2	.2	.4	.8	.2	.0	.5	2.8	
NO PCP	.1	.2	.2	.2	.2	.4	.8	.2	.0	.5	2.9	
TOT %	.1	.2	.2	.2	.2	.4	.8	.2	.0	.5	2.9	
5<10	.1	.1	.1	*	*	*	*	*	.0	.0	.4	
PCP	.9	1.4	2.5	1.0	1.4	2.8	4.5	2.5	.0	2.4	19.3	
NO PCP	.9	1.5	2.5	1.0	1.4	2.8	4.5	2.6	.0	2.4	19.7	
TOT %	.9	1.5	2.5	1.0	1.4	2.8	4.5	2.6	.0	2.4	19.7	
10+	.1	.2	.1	*	.0	*	.1	.1	.0	*	.6	
PCP	4.6	7.3	7.1	3.3	4.0	9.4	19.6	9.6	.0	10.8	75.8	
NO PCP	4.6	7.3	7.3	3.4	4.0	9.4	19.6	9.7	.0	10.9	76.4	
TOT %	4.6	7.3	7.3	3.4	4.0	9.4	19.6	9.7	.0	10.9	76.4	
TOT OBS	3.7	9.4	10.3	4.6	5.7	12.6	25.2	12.6	.0	13.8	100.0	
TOT PCT	3.7	9.4	10.3	4.6	5.7	12.6	25.2	12.6	.0	13.8	100.0	6333

PERIOD: (PRIMARY) 1938-1971  
(OVER-ALL) 1864-1971

ANNUAL

AREA 0022 S. E. PERSIAN GULF  
26.1N 54.7E

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED  
WITH VARYING VALUES OF VISIBILITY

WIND (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	.2
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.1	.1	.1	.1	.1	.1	.1	.1	.0	.5	.8
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.1	.2	.2	.1	.2	.4	.8	.2	.0	.5	2.8
5<10	0-3	.2	.2	.4	.2	.2	.4	.6	.4	.0	2.3	4.8
	4-10	.4	.3	.4	.7	.8	.7	2.4	1.2	.0	9.7	9.7
	11-21	.2	.3	.7	.1	.2	.5	1.2	.8	.0	4.3	4.3
	TOT %	.8	1.6	2.5	1.0	1.3	2.7	4.4	2.4	.0	19.1	2.0
10+	0-3	1.0	1.3	1.5	.7	1.0	1.4	2.5	1.4	.0	10.5	21.3
	4-10	2.7	4.6	4.4	2.1	2.5	5.3	11.9	5.7	.0	40.3	40.3
	11-21	.7	1.4	1.3	.4	.7	1.8	5.0	2.7	.0	14.3	14.3
	TOT %	4.4	7.3	7.2	3.3	4.2	9.6	20.0	10.1	.0	77.0	77.0
TOT OBS		5.6	9.4	10.3	4.5	5.8	12.9	25.3	12.9	.0	13.3	100.0
TOT PCT												733+

PER1000 (PRIMARY) 1938-1971  
(OVER-ALL) 1961-1971

ANNUAL

AREA 0022 S. E. PERSIAN GULF  
26.1N 54.7E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET) NH > 4/8; AND  
OCCURRENCE OF NH < 5/8 BY HOUR

HOUR (GMT)	000 149	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH < 5/8 ANY HGT	TOTAL OBS
00003	.2	.0	.4	.5	.5	1.0	1.3	.5	.1	.2	.8	5.0	95.0	1564
06009	.1	.1	.2	.3	.3	1.7	1.4	.7	.6	.4	1.4	7.2	92.8	1703
12015	.0	.0	.2	1.0	1.0	1.0	1.2	.7	.6	.7	1.0	6.3	93.7	1667
18021	.3	.1	.1	.6	1.0	.7	.8	.5	.2	.6	.6	4.8	95.2	1379
TOT	.6	.3	.3	.4	.4	.8	.7	.4	.3	.2	.6	394	5919	6313
PCT	.2	.1	.2	.6	.6	1.2	1.2	.7	.5	.4	1.0	5.9	94.1	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	< 1/2	1/2 < 1	1 < 2	2 < 3	5 < 10	10+	TOTAL OBS
00003	.1	.0	.0	2.2	15.2	82.2	1468
06009	.1	.0	.0	2.7	19.3	77.6	1622
12015	.1	.0	.0	2.6	.8	78.1	1555
18021	.2	.1	.0	2.7	16.7	80.0	1326
TOT	.7	.1	.0	14.8	101.4	4782	5971
PCT	.1	.0	.0	2.6	17.5	79.5	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR  
CEILING HGT (FEET) NH > 4/8, BY HOUR

HOUR (GMT)	< 150 CEILING	< 660 CEILING	< 1000 CEILING	1000+ AND 5+	NH < 5/8 AND 5+	TOTAL OBS
00003	.3	.7	3.4	3.9	92.6	1468
06009	.2	.6	3.7	6.5	89.8	1622
12015	.0	.2	4.2	5.3	90.4	1555
18021	.3	.6	4.1	3.8	92.1	1326
TOT	1.1	3.1	22.8	31.4	5429	5971
PCT	.2	.5	3.9	5.0	91.1	100.0



## ANNUAL

PERIOD: (PRIMARY) 1936-1971  
(OVER-ALL) 1864-1971

AREA 0022 S. E. PERSIAN GULF  
26.1N 54.7E

TABLE 13

TEMP	PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP										TOTAL OBS	PCT FREQ
	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100				
100/104	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	.5
95/99	.0	.0	.0	.4	1.0	.8	.2	.0	.0	.0	105	2.5
90/94	.0	.0	.2	1.2	3.1	7.2	5.8	1.2	.0	.0	800	18.7
85/89	.0	.0	.3	1.2	2.9	6.3	7.9	3.3	.0	.0	1010	21.9
80/84	.0	.0	.3	1.1	3.1	4.0	3.6	2.1	.0	.0	720	14.2
75/79	.0	.2	.6	1.6	3.2	4.7	3.2	1.5	.0	.0	782	14.9
70/74	.0	.1	.7	2.4	4.1	4.6	4.5	1.8	.0	.0	1053	18.3
65/69	.0	.4	.4	1.0	2.1	2.4	1.5	.8	.0	.0	485	8.3
60/64	.0	.0	.1	.2	.2	.3	.2	.1	.0	.0	68	1.2
55/59	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	7	.1
TOTAL	.0	.3	1.7	4.7	10.2	13.2	13.2	5.7	.0	.0	5032	100.0
PCT	.0	.3	2.6	9.3	19.6	30.3	26.9	10.7				

TABLE 14

PERCENT FREQUENCY BY WIND DIRECTION BY TEMP											VAR	CALM
TEMP	N	NE	E	SE	S	SW	W	NW	VAR	CALM		
100/104	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
95/99	.1	.2	.4	.2	.2	.2	.5	.2	.0	.0	.0	.4
90/94	.6	1.9	2.9	1.1	1.1	2.6	4.4	1.7	.0	.0	.0	2.2
85/89	.8	1.4	1.6	1.2	1.7	3.8	5.8	2.5	.0	.0	.0	3.1
80/84	.5	1.0	1.3	.5	1.1	2.3	3.9	1.7	.0	.0	.0	1.8
75/79	1.1	1.2	1.6	.6	.9	1.5	3.8	1.8	.0	.0	.0	2.4
70/74	1.4	2.0	1.8	.4	.7	2.1	4.7	2.8	.0	.0	.0	2.4
65/69	.9	1.0	.6	.3	.2	.7	2.2	1.6	.0	.0	.0	.8
60/64	.1	.3	.1	.0	.0	.0	.3	.0	.0	.0	.0	.1
55/59	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOTAL	5.7	9.0	10.4	4.4	5.8	13.3	25.6	12.6	.0	.0	.0	13.2
PCT	5.7	9.0	10.4	4.4	5.8	13.3	25.6	12.6	.0	.0	.0	13.2

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR											TOTAL OBS
MEAN	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL	OBS	
0000	95	85	83	79	74	72	55	78.5	1991	1991	1383
0600	99	90	87	82	77	73	57	81.3	2088	2088	1431
1200	100	91	89	83	77	74	59	81.8	2118	2118	1403
1800	97	86	84	80	75	73	57	79.7	1736	1736	1165
TOT	100	90	87	81	76	73	55	80.4	7933	7933	5304

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR											TOTAL OBS
MEAN	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL	OBS	
0000	95	85	83	79	74	72	55	78.5	1991	1991	1383
0600	99	90	87	82	77	73	57	81.3	2088	2088	1431
1200	100	91	89	83	77	74	59	81.8	2118	2118	1403
1800	97	86	84	80	75	73	57	79.7	1736	1736	1165
TOT	100	90	87	81	76	73	55	80.4	7933	7933	5304

PERIOD: (PRIMARY) 1938-1971  
(OVER-ALL) 1844-1971

ANNUAL

AREA 0022 S. E. PERSIAN GULF  
26.1N 54.7E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (OEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)  
VS AIR-SEA TEMPERATURE DIFFERENCE (OEG F)

AIR-SEA TMP DIF	53	57	61	65	69	73	77	81	85	89	93	96	YOT	h FOG	MO FOG
14/16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	.0	*
11/13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	28	.0	.4
9/10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	55	.0	.9
7/8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	139	.0	2.2
6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	127	.0	2.1
5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	163	.0	2.8
4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	209	.0	3.6
3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	307	.0	5.4
2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	460	.0	7.9
1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	538	.0	9.5
0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	768	.0	13.6
-1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	626	.0	11.1
-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	611	.0	10.7
-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	441	.0	7.5
-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	406	.0	7.0
-5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	298	.0	5.0
-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	184	.0	3.1
-7/-8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	209	.0	3.5
-9/-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	95	.0	1.6
-11/-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	33	.0	.5
-14/-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9	.0	.1
TOTAL	1	13	65	363	860	852	633	662	967	938	294	5708	5708	49	5630
PCT	.2	1.0	5.7	13.5	13.9	10.9	11.4	17.5	18.8	5.9	100.0	98.5			

PERIOD: (PRIMARY)  
(OVER-ALL) 1963-1971

ANNUAL  
TABLE 18

AREA 0022 S.F. PERSIAN GULF  
26.1N 54.7E

P.F. FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N										NE										PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	1.8	.0	.0	.0	.0	2.4	.8	2.7	.2	.0	.0	.0	3.7	.0	.0	.0	.0	.0	.0	.0
1-2	.0	1.7	.4	.0	.0	.0	2.3	.3	2.9	.7	.0	.0	.0	3.8	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.5	1.1	.0	.0	.0	.7	.1	1.2	1.4	.0	.0	.0	2.7	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.1	1.1	.0	.0	.0	.2	.0	.2	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	1.1	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.8	4.1	.7	.0	.0	.0	5.7	.2	7.0	2.8	.0	.0	.0	11.0	.0	.0	.0	.0	.0	.0	.0

HGT	E										SE										PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	
<1	1.4	2.3	.0	.0	.0	.0	3.6	.7	1.4	.1	.0	.0	.0	2.2	.0	.0	.0	.0	.0	.0	.0
1-2	.0	2.7	.5	.0	.0	.0	3.6	.0	1.5	.5	.0	.0	.0	2.0	.0	.0	.0	.0	.0	.0	.0
3-4	.1	1.4	1.2	.0	.0	.0	2.6	.0	.3	1.1	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.4	.4	.0	.0	.0	.8	.1	.0	.1	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.9	6.4	2.4	.1	.0	.0	10.7	.8	3.1	.9	.0	.0	.0	4.8	.0	.0	.0	.0	.0	.0	.0

ANNUAL  
TABLE 18  
AREA 0022 S. E. PERSIAN GULF  
26.1N 54.7E

PEF1001 (PRIMARY)  
(OVER-ALL) 1963-1971

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.7	1.4	.1	.0	.0	.0	2.2	1.2	2.3	.2	.0	.0	.0	3.7
1-2	.5	2.1	.4	.0	.0	.0	3.0	.4	5.8	1.3	.0	.0	.0	7.5
3-4	.0	.5	.6	.0	.0	.0	1.1	.0	1.4	1.8	.0	.0	.0	3.3
5-6	.0	.1	.3	.2	.0	.0	.5	.0	.2	.6	.0	.0	.0	.8
7	.0	.0	.1	.0	.0	.0	.1	.0	.0	.2	.0	.0	.0	.4
8-9	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.2	4.0	1.6	.1	.0	.0	6.9	1.6	9.8	4.1	.2	.0	.0	15.7

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	4.0	.2	.0	.0	.0	6.6	1.5	2.3	.3	.0	.0	.0	4.0
1-2	.8	8.5	3.2	.0	.0	.0	12.5	.3	4.0	1.1	.0	.0	.0	5.4
3-4	.0	2.6	3.9	.0	.0	.0	6.7	.2	1.6	1.9	.0	.0	.0	3.8
5-6	.0	.7	2.1	.4	.0	.0	3.2	.0	.2	.8	.0	.0	.0	1.0
7	.0	.1	.5	.2	.0	.0	.9	.0	.0	.2	.0	.1	.0	.2
8-9	.0	.0	.2	.1	.0	.0	.3	.0	.1	.1	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	3.1	16.0	10.1	1.1	.0	.0	30.3	2.0	8.1	4.4	.4	.1	.0	14.9

PERIOD: (PRIMARY) 1963-1971  
(OVER-ALL)

ANNUAL

TABLE 18 (CONT)

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT DBS
<1	25.6	15.2	.8	.0	.0	.0	41.6	
1-2	2.5	23.7	6.6	.0	.0	.0	32.9	
3-4	.3	7.4	9.2	.3	.0	.0	17.2	
5-6	.1	1.5	2.9	.4	.0	.0	5.9	
7	.0	.1	1.0	.5	.1	.0	1.7	
8-9	.0	.1	.3	.2	.0	.0	.6	
10-11	.0	.0	.1	.1	.0	.0	.1	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	28.5	48.0	21.9	1.5	.1	.0	100.0	1324

AREA: 0022 S. E. PERSIAN GULF  
26.1N 54.7E

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+ TOTAL	MEAN HGT	
<67	11.8	26.8	13.3	2.9	.5	.1	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2508	2
67-	.1	1.0	2.7	2.0	.5	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	312	4
8-9	.1	.2	.4	.3	.5	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	59	5
10-11	.0	.2	.1	.1	.0	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	21	5
12-13	.0	.0	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	5
>13	.0	.0	.0	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	6
INCEP	28.4	4.9	1.6	.4	.2	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1389	1
TOTAL	1796	1483	829	267	86	33	11	1	0	0	0	0	0	0	0	0	0	0	0	4506	2
PCT	40.3	23.1	18.1	5.7	1.8	.7	.2	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1938-1971  
(OVER-ALL) 1908-1971

AREA 0022 S. E. PERSIAN OULF  
26.0N 54.7E

TABLE 20

PERCENT FREQUENCY OF OCCURRENCE OF SEA TEMP (DEG F) BY MONTH

SEA TMP DEG F	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN	PCT
96+	.0	.0	.0	.0	.0	.0	.0	.6	.6	.0	.0	.0	6	.1
95/96	.0	.0	.0	.0	.0	.0	.0	2.7	1.7	.0	.0	.0	24	.3
95/94	.0	.0	.0	.0	.0	.5	4.6	19.0	10.6	.9	.0	.0	182	2.6
91/92	.0	.0	.0	.0	.0	2.4	28.1	43.3	35.5	8.6	.2	.0	605	8.6
89/90	.0	.0	.0	.0	.5	16.3	38.4	22.9	33.7	25.5	1.9	.0	732	10.5
87/88	.0	.0	.0	.0	2.7	28.8	20.1	9.9	12.5	28.2	4.0	.0	579	8.3
85/86	.0	.0	.0	.4	10.0	30.5	7.5	1.4	4.0	22.5	13.2	.2	504	7.2
83/84	.0	.0	.0	1.1	25.4	14.1	1.3	.2	1.2	10.2	23.4	1.4	440	6.3
81/82	.5	.0	.0	3.4	20.5	7.9	.0	.0	.2	2.8	31.4	8.6	465	6.6
79/80	1.1	.6	.8	12.8	21.7	1.4	.0	.0	.0	1.1	17.5	21.4	455	6.5
77/78	5.9	1.7	8.9	27.3	8.5	.2	.0	.0	.0	.0	2.5	26.6	530	7.6
75/76	16.7	10.0	28.2	28.7	3.6	.0	.0	.0	.0	.0	.0	18.6	744	10.6
73/74	27.1	29.1	29.8	17.7	.2	.0	.0	.0	.0	.0	.0	13.8	748	10.7
71/72	26.2	30.2	17.9	5.3	.0	.0	.0	.0	.0	.0	.0	4.7	557	8.0
69/70	19.8	20.1	10.6	2.2	.0	.0	.0	.0	.0	.0	.0	1.0	316	4.5
67/68	1.8	6.7	2.3	.2	.0	.0	.0	.0	.0	.0	.0	.3	75	1.1
65/66	1.1	1.2	.4	.0	.0	.0	.0	.0	.0	.0	.0	.2	19	.3
63/64	.6	.3	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	11	.2
61/62	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	.0
59/60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
57/58	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
55/56	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
53/54	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
51/52	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
49/50	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
47/48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
45/46	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
43/44	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
41/42	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
39/40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
37/38	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
35/36	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
33/34	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
31/32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
29/30	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
27/28	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
25/26	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
23/24	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
21/22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
19/20	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
17/18	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
15/16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
13/14	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
11/12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
9/10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
7/8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
5/6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
3/4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
1/2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
TOTAL	652	642	744	554	637	587	477	515	519	568	525	575	6995	100.0
MEAN	73.1	71.9	73.5	76.2	81.6	86.4	89.5	91.1	90.4	87.4	82.1	76.9	81.0	

PERIOD: (PRIMARY) 1936-1971  
(OVER-ALL) 1908-1971

AREA 0022 S. E. PERSIAN GULF  
26.0N 54.7E

TABLE 21

PRESSURE (MB)

AVERAGE BY HOUR (GMT)

MO	AVERAGE BY HOUR (GMT)												TOTAL DBS	EXTREMES			
	0000	0300	0600	0900	1200	1500	1800	2100	MEAN	DBS	MAX	YEAR		DA	HR		
JAN	1017	1018	1019	1017	1016	1018	1017	1015	1017	1012	1014	1017	700	1026	1932	11	12
FEB	1015	1016	1017	1014	1015	1015	1015	1014	1015	1014	1014	1015	678	1025	1930	02	00
MAR	1012	1012	1015	1014	1013	1013	1014	1014	1013	1014	1014	1013	769	1022	1933	27	18
APR	1008	1010	1011	1010	1009	1011	1010	1010	1010	1010	1010	1010	572	1020	1933	01	09
MAY	1005	1005	1007	1006	1005	1005	1005	1004	1006	1004	1004	1006	632	1013	1937	04	00
JUN	999	1002	1001	1002	1000	1000	999	998	1000	998	998	1000	606	1010	1932	06	12
JUL	996	998	998	997	996	996	996	995	996	995	995	996	480	1005	1931	11	06
AUG	999	999	1000	999	998	998	999	999	999	999	999	999	531	1007	1934	29	06
SEP	1004	1006	1006	1004	1003	1003	1004	1004	1004	1004	1004	1005	504	1013	1935	01	06
OCT	1010	1012	1013	1012	1011	1011	1011	1012	1011	1012	1012	1011	549	1019	1937	28	12
NOV	1015	1016	1017	1015	1015	1016	1015	1016	1016	1016	1016	1016	545	1022	1933	02	12
DEC	1017	1018	1019	1018	1015	1018	1018	1018	1018	1018	1018	1018	619	1025	1933	02	12
ANN	1008	1011	1011	1010	1009	1010	1009	1010	1009	1010	1010	1009	7205	1025	1913	30	15
OBS	1022	1044	1044	1028	1011	1022	1038	1022	1038	1022	1038	1038					

PERCENTILES

MO	1%	5%	25%	50%	75%	95%	99%
JAN	1006	1012	1016	1016	1020	1023	1025
FEB	1004	1010	1013	1016	1018	1021	1022
MAR	1004	1008	1011	1013	1015	1018	1020
APR	1001	1004	1008	1010	1012	1015	1018
MAY	998	1000	1004	1006	1008	1011	1012
JUN	992	995	997	1000	1002	1006	1008
JUL	988	992	995	997	998	1001	1003
AUG	992	994	997	999	1001	1004	1006
SEP	996	998	1002	1005	1007	1010	1011
OCT	1004	1006	1009	1011	1014	1016	1018
NOV	1009	1011	1014	1016	1018	1020	1021
DEC	1010	1013	1016	1018	1019	1022	1024

JANUARY

PERIOD: (PRIMARY) 1948-1971  
(OVER-ALL) 1908-1971

AREA 0023 N. E. PERSIAN GULF  
27.3N 51.7E

TABLE 1  
PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR (OBS)	RAIN SHR	RAIN SHR	ORZL PCPN	PRECIPITATION TYPE				HAIL PCPN	TOTAL PCPN AT DB TIME	THOR LTNG	OTHER WEATHER PHENOMENA						TOTAL DBS
				FRZG PCPN	SNOW PCPN	OTHER FRZN	PCPN				PCPN	FOG NO	SMOKE HAZE	DUST BLWG	ND SNOW	WEA	
N	.1	.1	.1	.0	.0	.0	.0	.0	.3	.1	.0	.0	.0	.0	.1	11.5	101
NE	.2	.1	.2	.0	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	3.9	35
E	.1	.2	.2	.0	.0	.0	.0	.0	.5	.0	.0	.0	.0	.0	.1	6.6	60
SE	.9	.1	.0	.0	.0	.0	.0	.0	1.0	.1	.0	.0	.1	.0	.4	11.3	105
S	.1	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	2.2	22
SW	.2	.1	.0	.0	.0	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	1.8	18
W	.2	.1	.0	.0	.0	.0	.0	.0	.2	.1	.0	.0	.1	.0	.0	12.8	111
NW	.2	.2	.1	.0	.0	.0	.0	.0	.3	.1	.0	.0	1.1	.0	.7	34.1	308
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	.2	.1	.0	.0	8.7	80
TOT OBS	17	7	4	.0	.0	.0	.0	.0	.0	.7	.2	.2	.1	.0	.8	78.2	641
TOT PCT	2.0	.8	.5	.0	.0	.0	.0	.0	3.3	.8	.2	.2	1.7	1.0	.9	93.0	100.0

TABLE 2

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	RAIN SHR	RAIN SHR	ORZL PCPN	PRECIPITATION TYPE				HAIL PCPN	TOTAL PCPN AT DB TIME	THOR LTNG	OTHER WEATHER PHENOMENA						TOTAL DBS
				FRZG PCPN	SNOW PCPN	OTHER FRZN	PCPN				PCPN	FOG NO	SMOKE HAZE	DUST BLWG	ND SNOW	WEA	
00003	3.6	.0	.9	.0	.0	.0	.0	.0	4.4	2.2	.0	.9	.9	.3	1.3	91.1	225
06009	2.8	1.4	.0	.0	.0	.0	.0	.0	4.2	.5	.9	.3	3.2	1.4	1.4	91.2	215
12019	.4	1.2	.8	.0	.0	.0	.0	.0	2.7	.0	.0	.0	.0	.0	.0	94.4	251
18021	1.5	.5	.0	.0	.0	.0	.0	.0	2.0	1.5	.0	.0	.0	1.0	.0	95.5	200
TOT	18	7	4	.0	.0	.0	.0	.0	.0	.9	.2	.2	.15	.8	.8	82.9	891
PCT	2.0	.8	.4	.0	.0	.0	.0	.0	3.3	1.0	.2	1.7	1.7	.9	.9	93.0	100.0



JANUARY

PERIOD: (PRIMARY) 1948-1971  
(OVER-ALL) 1903-1971

AREA OC23 N. E. PERSIAN GULF  
27.2N 51.7E

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WNO DIR	WIND SPEED (KNOTS)										HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48-	TOTAL ORS	PCT FREQ	MEAN SPD	UV	03	06	09	12	15	18	21	
N	1.8	5.8	2.9	.8	.1	.0	124	12.3	9.3	16.9	5.2	16.7	5.1	11.8	1.3	9.4	9.6	
NE	.7	2.2	1.0	.0	.0	.0	39	3.9	7.7	3.2	.0	4.9	4.1	4.2	6.6	3.5	3.8	
E	.7	4.9	2.0	.3	.0	.0	79	7.8	9.1	7.5	10.9	8.0	10.3	7.4	11.8	6.2	10.6	
SE	1.0	6.4	4.6	.9	.0	.0	129	12.8	10.9	14.2	18.5	9.2	13.3	12.6	13.2	12.8	17.3	
S	.5	1.2	.7	.1	.0	.0	25	2.5	9.9	2.6	1.1	1.8	.0	3.8	2.6	3.0	1.0	
SW	.3	1.2	.5	.0	.0	.0	20	2.0	8.0	2.2	.0	2.3	2.0	2.3	.0	1.9	1.9	
W	1.7	7.7	4.1	.6	.0	.0	142	14.1	9.7	11.8	12.5	13.8	10.4	15.7	15.8	15.3	7.7	
NW	2.5	15.3	14.1	3.6	.6	.0	364	36.1	12.4	30.8	44.6	34.8	31.7	36.0	46.1	37.2	44.2	
VAR	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	8.4	461	301	64	7	C	85	8.4	9.8	12.8	4.3	8.6	6.1	6.3	2.6	10.2	3.8	
TOT ORS	177	461	298	63	7	C	1010			203	46	198	49	238	38	186	52	
TOT PCT	17.5	45.6	29.8	6.3	.7	C	100.0	100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL ORS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+				00 03	06 09	12 15	18 21	
N	5.6	5.1	1.3	.3	.0	124	12.3	9.3	15.3	14.4	10.3	9.5	
NE	1.8	2.0	.1	.0	.0	39	3.9	7.7	2.6	4.8	4.5	3.6	
E	2.9	4.1	.8	.0	.0	79	7.8	9.1	6.5	9.6	8.0	7.1	
SE	3.9	6.4	2.4	.2	.0	129	12.8	10.9	15.0	10.0	12.7	13.8	
S	1.0	1.0	.4	*	.0	25	2.5	9.9	2.3	1.4	3.6	2.5	
SW	1.0	.9	.1	.0	.0	20	2.0	8.0	1.8	2.2	2.0	1.9	
W	5.4	6.0	2.6	.1	.0	142	14.1	9.7	11.9	15.1	15.7	13.6	
NW	8.5	18.0	8.4	1.0	.2	364	36.1	12.4	33.3	34.4	37.4	39.3	
VAR	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	
CALM	8.4	440	162	17	2	65	8.4	9.8	11.2	8.1	5.6	5.8	
TOT ORS	389	440	162	17	2	1010			249	247	276	238	
TOT PCT	38.5	43.6	16.0	1.7	.2	100.0	100.0		100.0	100.0	100.0	100.0	

PERIOD: (PRIMARY) 1945-1971  
(OVER-ALL) 1908-1971

JANUARY

AREA 0023 N. E. PERSIAN GULF  
27.3N 51.7E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)									
HOUR	CAL	1-3	4-10	WIND SPEED (KNOTS)				MEAN	PCT FREQ
				11-21	22-33	34-47	48+		
0303	11.2	8.4	47.0	25.3	6.8	1.2	.0	9.5	100.0
0609	8.1	10.5	40.9	35.6	4.5	.4	.0	11.9	100.0
1215	5.3	10.9	44.6	30.1	8.0	.7	.0	10.3	100.0
1821	8.3	6.3	50.4	28.2	5.9	.4	.0	9.6	100.0
TOT	83	92	461	301	64	7	0	9.8	1016
PCT	8.4	9.1	45.6	29.8	6.3	.7	.0	9.8	100.0

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION									
WIND DIR	0-2	3-4	5-7	8-10	OBS	MEAN		TOTAL	OBS
						CLOUD	COVER		
N	7.2	1.3	2.6	1.1	92	2.6	2.6	92	92
NE	1.4	.4	1.1	.1	23	3.2	3.2	23	23
E	2.4	.8	2.3	.9	49	3.9	3.9	49	49
SE	5.4	1.3	3.8	1.1	84	3.4	3.4	84	84
S	1.5	.4	.3	.2	18	2.4	2.4	18	18
SW	1.2	.2	.1	.8	17	2.8	2.8	17	17
W	10.6	1.6	2.0	1.0	116	2.0	2.0	116	116
NW	27.3	4.2	4.9	1.2	285	1.7	1.7	285	285
VAR	.0	.0	.0	.0	0	.0	.0	0	0
CALM	7.4	.9	.8	.1	70	1.2	1.2	70	70
TOT OBS	491	83	137	49	760	2.3	2.3	760	760
TOT PCT	64.6	10.9	18.0	6.4	100.0				

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH > 4/8) AND OCCURRENCE OF NH < 5/8 BY WIND DIRECTION													
WIND DIR	0-2	3-4	5-7	8-10	OBS	PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH > 4/8) AND OCCURRENCE OF NH < 5/8 BY WIND DIRECTION							
						150	300	600	1000	2000	3500	5000	8000+
N	7.2	1.3	2.6	1.1	92	.0	.1	.4	.5	.4	.1	.3	.4
NE	1.4	.4	1.1	.1	23	.0	.0	.2	.2	.1	.1	.0	.3
E	2.4	.8	2.3	.9	49	.0	.0	.3	.4	.3	.6	.0	.1
SE	5.4	1.3	3.8	1.1	84	.0	.0	.3	.6	.7	.4	.0	.1
S	1.5	.4	.3	.2	18	.0	.0	.0	.1	.1	.0	.0	.0
SW	1.2	.2	.1	.8	17	.0	.0	.0	.1	.1	.0	.0	.0
W	10.6	1.6	2.0	1.0	116	.0	.0	.1	.3	.3	.1	.0	.1
NW	27.3	4.2	4.9	1.2	285	.0	.0	.3	1.1	.7	.7	.1	.3
VAR	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	7.4	.9	.8	.1	70	.0	.0	.0	.3	.0	.0	.1	.0
TOT OBS	491	83	137	49	760	.0	.1	1.4	2.9	2.2	1.8	.6	.3
TOT PCT	64.6	10.9	18.0	6.4	100.0	.0	.1	1.8	3.8	2.9	2.4	.7	.3

PERIOD: (PRIMARY) 1948-1971  
(OVER-ALL) 1908-1971

JANUARY

AREA 0023 14. E. PERSIAN GULF  
27.3N 51.7E

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE  
OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

CEILING (FEET)	OR		OR		OR		OR		OR		OR		CR
	>10	>5	>2	>1	>1/2	>1/4	>50Y	>50	>50Y	>50	>50Y	>50	
OR >6500	1.6	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
OR >5000	2.1	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
OR >3500	3.8	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6
OR >2000	5.9	9.3	9.3	9.3	9.3	9.3	9.3	9.3	9.3	9.3	9.3	9.3	9.3
OR >1000	8.4	12.9	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.1
OR >600	9.5	14.4	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9
OR >300	9.5	14.4	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9
OR >150	9.5	14.4	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9
OR >0	9.5	14.4	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9
TOTAL	75	114	118	118	118	118	118	118	118	118	118	118	118

TOTAL NUMBER OF OBS: 793

PCT FREQ NM <5/8: 85.1

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	9	TOTAL
	48.8	14.4	11.1	6.2	4.4	3.4	4.6	3.7	3.7	0.0	835

PERIOD: (PRIMARY) 1940-1971  
(OVER-ALL) 1908-1971

JANUARY

AREA 0023 N.E. PERSIAN GULF  
27.3N 51.7E

TABLE 8  
PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF  
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
ND PCP	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.4	.4
TOT %	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.4	.4
PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
ND PCP	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1	.1
TOT %	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1	.1
PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
ND PCP	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.2	.2
TOT %	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.2	.2
PCP	.0	.1	.2	.1	.0	.1	.0	.0	.0	.0	.5	.5
ND PCP	.0	.0	.0	.1	.1	.1	.0	.6	.0	.1	1.0	1.4
TOT %	.0	.1	.2	.1	.1	.2	.0	.6	.0	.1	1.4	1.4
PCP	.2	.3	.1	.6	.0	.1	.2	.2	.0	.0	1.7	1.7
ND PCP	1.4	1.1	1.2	3.4	1.3	.6	2.3	4.9	.0	.7	18.9	18.9
TOT %	1.6	1.4	1.3	4.0	1.3	.7	2.5	7.1	.0	.7	20.6	20.6
PCP	.1	.0	.2	.3	.1	.1	.1	.3	.0	.0	1.2	1.2
ND PCP	10.3	2.8	5.2	8.2	1.2	1.1	10.7	28.1	.0	.0	76.1	76.1
TOT %	10.4	2.8	5.3	8.4	1.3	1.2	10.8	28.4	.0	.0	77.3	77.3
TOT OBS	12.0	4.2	7.2	12.6	2.6	2.1	13.3	36.5	.0	9.4	100.0	840

PERIOD: (PRIMARY) 1948-1971  
(OVER-ALL) 1908-1971

JANUARY

AREA 0029 N. E. PERSIAN GULF  
27.3N 51.7E

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED  
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPO KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5<10	0-3	.1	.3	.1	.1	.2	.2	.4	.6	.0	.6	2.6
	4-10	1.1	.6	1.0	1.5	.3	.4	1.0	2.5	.0	.0	8.2
	11-21	.1	.2	.1	1.9	.4	.1	.7	2.2	.0	.0	5.8
	TOT %	1.4	1.2	1.3	3.9	1.1	.6	2.2	6.2	.0	.6	18.6
10+	0-3	1.7	.3	.6	1.0	.3	.4	1.2	1.8	.0	7.8	14.7
	4-10	5.1	1.6	3.3	5.1	.9	.9	7.0	12.6	.0	.0	37.1
	11-21	2.8	.7	1.6	2.3	.3	.2	3.5	12.0	.0	.0	23.8
	TOT %	10.1	2.7	6.3	9.1	1.4	1.1	12.1	28.7	.0	7.8	79.4
TOT OBS												970
JOY PCT		11.5	3.9	8.1	13.3	2.6	2.0	14.3	35.8	.0	8.6	100.0

JANUARY

PERIOD: (PRIMARY) 1948-1971  
(OVER-ALL) 1908-1971

AREA 0023 N. E. PERSIAN GULF  
27.3N 51.7E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH > 4/8) AND  
OCCURRENCE OF NH < 5/8 BY HOUR

HOUR (GMT)	000 149	050 299	100 399	150 499	200 599	250 699	300 799	350 899	400 999	450 1099	500 1199	550 1299	600 1399	650 1499	700 1599	750 1699	800+	TOTAL NH < 5/8 ANY HGT	TOTAL DBS
00003	.0	.0	.0	.0	1.0	4.3	3.9	3.4	.0	.5	3.4	16.4	83.6	207					
06009	.0	.0	.5	1.5	4.4	3.9	1.5	.0	1.0	2.0	14.7	85.3	204						
12015	.0	.0	.0	1.7	3.4	1.7	2.5	1.7	.4	2.5	13.9	86.1	237						
18021	.0	.0	.0	2.8	2.2	1.1	1.7	1.1	.6	3.4	12.8	87.2	179						
TOT	0	0	1	14	30	22	19	6	5	23	120	707	827						
PCT	.0	.0	.1	1.7	3.6	2.7	2.3	.7	.6	2.8	14.5	85.5	100.0						

TABLE 11

PERCENT FREQUENCY VS8Y (NH) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	1.0	.0	.0	.5	20.0	78.5	195
06009	.5	.0	.0	1.5	15.2	82.8	198
12015	.0	.0	.0	1.8	17.5	80.7	228
18021	.0	.0	.0	.0	21.5	78.5	172
TOT	3	0	0	8	146	636	793
PCT	.4	.0	.0	1.0	18.4	80.2	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VS8Y (NH) AND/OR  
CEILING HGT (FEET, NH > 4/8) BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH < 5/8 AND 5+	TOTAL OBS
00003	.0	1.0	2.6	15.9	81.5	195
06009	.0	.5	3.5	12.6	83.8	198
12015	.0	.0	2.6	12.3	85.1	228
18021	.0	.0	2.9	10.5	86.6	172
TOT	0	3	23	102	638	793
PCT	.0	.4	2.9	12.9	84.2	100.0

JANUARY

PERIOD: (PRIMARY) 1948-1971  
(OVER-ALL) 1908-1971

AREA: 0023 N. E. PERSIAN GULF  
27.3N 51.7E

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ	N	NE	E	SE	S	SW	W	WM	VAR	CALN
80/84	.0	.1	.0	.0	.4	.1	.0	.0	5	.7	.1	.0	.1	.0	.0	.0	.1	.3	.0	.0
75/79	.0	.0	.3	.9	1.0	.6	.1	.0	20	2.9	.1	.4	.6	.6	.1	.0	.7	.7	.0	.1
70/74	.0	.1	1.2	3.4	7.8	8.0	3.8	2.9	185	27.2	3.1	1.5	2.8	5.8	.9	.7	3.1	1.3	.0	2.5
65/69	.0	.1	1.0	4.6	12.4	13.4	11.3	3.2	313	48.1	5.5	1.5	2.9	5.0	.6	.3	7.2	1.2	.0	4.1
60/64	.0	.0	1.2	3.8	4.6	3.7	3.1	1.5	121	17.8	1.9	1.3	.4	.7	.1	.8	3.2	6.5	.0	1.9
55/59	.0	.0	.3	1.5	1.0	.3	.1	.0	22	3.2	1.0	.0	.1	.1	.0	.0	.5	1.4	.0	.0
50/54	.0	.0	.0	.1	1.0	.3	.0	.0	10	1.5	.5	.0	.0	.0	.0	.0	.0	1.0	.0	.0
45/49	.0	.0	.0	.0	.1	.3	.0	.0	3	.4	.3	.0	.0	.0	.0	.0	.0	.1	.0	.0
TOTAL	.0	.3	27	97	193	181	126	52	679	100.0	85	29	46	83	14	12	104	244	0	59
PCT	.0	.4	4.0	14.3	28.4	26.7	18.6	7.7			12.6	4.3	6.8	12.3	2.1	1.8	15.4	36.0	.0	8.7

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

TIME (GMT)	HAX	99%	95%	50%	5%	1%	MIN	NEAN	TOTAL OBS
0000	77	74	72	66	57	50	43	65.7	261
0600	84	79	74	67	59	54	48	67.1	257
1200	84	81	77	69	58	49	44	68.6	287
1800	79	75	72	67	57	47	44	66.2	244
TOT	84	78	74	68	58	49	44	66.9	1049

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

TIME (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	NEAN	TOTAL OBS
0000	.0	8.4	21.8	36.3	25.1	8.4	75	179
0600	.0	22.1	25.7	28.2	16.9	8.3	70	172
1200	.0	30.0	34.0	19.7	13.3	3.0	67	203
1800	.0	12.3	32.7	24.1	19.8	11.1	72	162
TOT	0	134	207	189	133	53	71	716

PERIOD: (PRIMARY) 1948-1971  
(OVER-ALL) 1908-1971

JANUARY

AREA 0023 N. E. PERSIAN GULF  
27.5N 51.7E

TABLE 17  
PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)  
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TAP OIF	41	45	49	53	57	61	65	69	73	77	81	TOT	h FCG	WD FOG
11/13	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.3	1	.0	.1
9/10	.0	.0	.0	.0	.0	.0	.1	.0	.0	.3	.4	5	.0	.7
7/8	.0	.0	.0	.0	.0	.0	.0	.1	.0	.4	.4	6	.0	.9
6	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	2	.0	.3
5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0	3	.0	.4
4	.0	.0	.0	.0	.0	.0	.3	.1	.3	.1	.0	4	.0	.9
3	.0	.0	.0	.0	.0	.1	.4	.6	.9	.3	.0	16	.0	2.3
2	.0	.0	.0	.0	.0	.1	.3	1.3	1.3	.1	.0	22	.0	3.2
1	.0	.0	.0	.0	.1	.4	.7	2.2	1.5	.0	.0	30	.0	4.4
0	.0	.0	.0	.0	.1	.6	.9	3.5	2.5	.0	.0	51	.0	7.5
-1	.0	.0	.0	.0	.0	.4	2.6	5.0	1.8	.0	.0	68	.0	9.9
-2	.0	.0	.0	.0	.0	.4	2.8	5.6	.4	.0	.0	63	.0	9.2
-3	.0	.0	.0	.0	.1	.4	3.9	3.8	.7	.0	.0	62	.0	9.1
-4	.0	.0	.0	.0	.0	1.2	5.1	3.4	.0	.0	.0	66	.0	9.6
-5	.0	.0	.0	.0	.4	1.2	6.3	2.5	.0	.0	.0	71	.0	10.4
-6	.0	.0	.0	.0	.7	1.8	3.9	.9	.0	.0	.0	50	.0	7.3
-7/-8	.0	.0	.0	.3	1.5	3.8	4.7	.9	.0	.0	.0	76	.0	11.1
-9/-10	.0	.0	.0	.1	.6	2.9	2.2	.1	.0	.0	.0	41	.1	3.8
-11/-13	.0	.0	.1	.3	1.3	1.3	.1	.1	.0	.0	.0	23	.0	3.4
-14/-16	.0	.0	.4	.3	1.0	.8	.0	.0	.0	.0	.0	16	.0	2.3
-17/-19	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	3	.0	.4
-20/-22	.1	.2	.7	.7	.0	.0	.0	.0	.0	.0	.0	3	.0	.4
TOTAL	1	3	10	10	5.8	14.9	33.5	30.1	9.5	1.9	.7	684	1	683
PCT	.1	.3	1.0	1.0	5.8	14.9	33.5	30.1	9.5	1.9	.7	100.0	.1	97.9





PERIOD: (PRIMARY)  
(OVER-ALL) 1963-1971

JANUARY  
TABLE 18

AREA 0023 N. E. PERSIAN GULF  
27.3N 51.7E

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.6	.0	.0	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.8	.0	.0	.0	.0	.8
3-4	.0	.0	.6	.0	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.6	.6	.0	.0	.0	1.1	.0	.8	.0	.0	.0	.0	.8

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.6	.6	.0	.0	.0	1.1	.0	.8	.0	.0	.0	.0	.8

AREA 0023 N.E. PERSIAN GULF  
27.3N 51.7E

JANUARY

PERIOD: (PRIMARY)  
(OVER-ALL) 1963-1971

TABLE 18 (CONT)

HGT	WIND SPEED (KTS) VS SEA HEIGHT (FT)							TOT OBS
	0-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	17.1	11.4	.0	.0	.0	.0	28.5	
1-2	1.9	17.7	5.1	.0	.0	.0	24.7	
3-4	.0	6.3	17.1	3.8	.0	.0	27.2	
5-6	.0	3.2	7.6	1.3	.0	.0	12.0	
7	.0	.6	2.5	1.3	.0	.0	4.4	
8-9	.0	.0	.0	1.3	.0	.0	1.3	
10-11	.0	.0	.0	.6	.0	.0	.6	
12	.0	.0	.0	.6	.0	.0	.6	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.6	.0	.6	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	19.0	39.2	22.3	8.9	.6	.0	100.0	
							158	

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	25-25	26-32	33-40	41-48	49-60	61-70	71-86	87+ TOTAL	MEAN HGT
<6	7.6	23.0	16.6	5.2	2.0	1.1	.2	.7	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	313
6-7	.0	.4	2.9	2.9	1.3	.7	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	46
8-9	.2	.2	.5	1.8	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	22
10-11	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3
12-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
INDET	22.1	4.0	3.4	.5	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	169
TOTAL	165	107	130	52	27	10	3	5	.0	1	0	0	0	0	0	0	0	0	0	523
PCT	29.8	27.8	23.5	10.5	4.3	1.8	.5	.9	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0

FEBRUARY

PERIOD: (PRIMARY) 1948-1971  
(OVER-ALL) 1864-1971

AREA 0023 N. E. PERSIAN GULF  
27.2N 51.8E

TABLE 1

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR (GMT)	RAIN SHR	RAIN SHR	DRILL PCPN	PRECIPITATION TYPE			HAIL PCPN	PCT FREQ PCPN AT 08 TIME	TOTAL PCPN OBS	THOR LTNG	OTHER WEATHER PHENOMENA					TOTAL OBS
				FRZG PCPN	SNOW PCPN	OTHER PCPN					FGG PCPN	SMOKE NO	HAZE NO	BLWG DUST	BLWG SNOW	
N	.3	.1	.2	.0	.0	.0	.0	.6	5	.1	.0	.5	.0	.0	.0	86
NE	.1	.0	.1	.0	.0	.0	.0	.2	1	.1	.0	.0	.0	.0	.0	32
E	.3	.0	.1	.0	.0	.0	.0	.4	3	.1	.0	.0	.0	.0	.0	52
SE	.3	.1	.2	.0	.0	.0	.0	.6	5	.1	.0	.0	.0	.0	.0	115
S	.2	.0	.0	.0	.0	.0	.0	.2	1	.0	.0	.0	.0	.0	.0	28
SW	.0	.1	.1	.0	.0	.0	.0	.2	2	.0	.0	.0	.0	.0	.0	20
W	.0	.0	.0	.0	.0	.0	.0	.0	0	.1	.0	.4	.3	.0	.0	109
NW	.5	.1	.1	.0	.0	.0	.0	.8	6	.2	.0	1.0	1.0	.0	.0	382
VAR	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
CALM	.5	.4	.7	.0	.0	.0	.0	.0	26	.0	.1	.1	.1	.1	.1	58
TOT OBS	1.7	.5	.8	.3	.0	.0	.0	2.9	26	.7	.1	2.0	1.5	93.1	100.0	885

TABLE 2

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	RAIN SHR	RAIN SHR	DRILL PCPN	PRECIPITATION TYPE			HAIL PCPN	PCT FREQ PCPN AT 08 TIME	TOTAL PCPN OBS	THOR LTNG	OTHER WEATHER PHENOMENA					TOTAL OBS
				FRZG PCPN	SNOW PCPN	OTHER PCPN					FGG PCPN	SMOKE NO	HAZE NO	BLWG DUST	BLWG SNOW	
0000	1.3	.9	.4	.0	.0	.0	.0	2.2	5	.9	.4	.4	.9	.9	.9	231
0600	1.9	.5	1.9	.0	.0	.0	.0	2.2	9	.5	.0	3.7	2.3	2.3	2.3	216
1200	2.4	1.2	.4	.0	.0	.0	.0	4.0	10	.0	.0	2.8	.0	.0	.0	252
1800	.9	.0	.4	.0	.0	.0	.0	1.3	3	1.3	.0	.9	.4	.4	.4	223
TOT	1.5	.5	.7	.0	.0	.0	.0	2.9	27	.6	.1	1.8	.1	.1	.1	922
PCT	1.1	.5	.8	.0	.0	.0	.0	2.9	27	.7	.1	2.0	1.4	93.3	100.0	885

FEBRUARY

PERIOD: (PRIMARY) 1948-1971  
(OVER-ALL) 1864-1971

AREA 0023 N. E. PERSIAN GULF  
27.2N 51.8E

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						HOUR (GMT)										
	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.8	4.3	3.6	.6	.0	.0	97	9.2	11.3	10.4	2.1	14.7	5.6	6.6	15.0	8.1	3.8
NE	.8	2.6	.6	.1	.0	.0	44	4.2	8.2	3.6	8.8	4.3	5.6	3.3	3.3	4.8	5.8
E	1.1	3.9	1.9	.2	.0	.0	76	7.2	9.0	8.0	18.8	5.0	5.6	7.1	5.0	10.2	7.7
SE	1.4	7.1	5.8	.4	.0	.0	155	14.7	10.4	12.2	18.8	16.1	31.5	13.8	16.7	10.7	21.2
S	.9	3.0	.5	.0	.0	.0	36	3.5	7.1	2.2	.0	2.7	9.3	4.3	1.7	4.7	.0
SW	.9	3.2	.4	.2	.0	.0	27	2.6	7.7	2.3	.0	1.0	.0	2.5	.0	7.7	.0
W	1.1	6.0	2.1	1.7	.0	.0	125	11.9	11.2	13.1	9.4	11.7	8.3	12.1	20.0	10.7	11.5
NW	1.7	15.2	19.5	3.0	.1	.0	427	40.4	13.0	38.6	38.5	39.5	28.7	45.4	35.0	41.6	40.4
VAR	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	6.2	447	374	76	3	0	66	6.2	.0	9.6	4.2	4.2	5.6	5.3	3.3	6.8	1.9
TOT OBS	157	423	354	72	3	0	1057	100.0	10.6	229	24	203	54	246	30	219	52
TOT PCT	14.9	42.3	35.4	7.2	.3	.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)						41+	TOTAL OBS	PCT FREQ	MEAN SPO	HOUR (GMT)						
	0-6	7-16	17-27	28-40	41+	00					03	06	09	12	15	18	21
N	2.0	4.2	1.5	.3	.0	97	.0	9.2	11.3	9.6	12.7	9.6	12.7	7.5	7.5	7.3	
NE	2.5	1.3	.3	.2	.0	44	.0	4.2	8.2	4.1	4.6	4.1	4.6	3.4	3.4	5.0	
E	3.3	3.1	.5	.2	.0	76	.0	7.2	9.0	9.0	5.2	9.0	5.2	5.1	9.7		
SE	4.8	7.3	2.3	.3	.0	155	.0	14.7	10.4	12.8	19.4	12.8	19.4	14.1	12.7		
S	1.7	1.8	.0	.0	.0	36	.0	3.5	7.1	2.0	4.1	2.0	4.1	4.0	3.8		
SW	1.5	.9	.2	.0	.0	27	.0	2.6	7.7	2.1	.8	2.1	.8	3.7	3.7		
W	4.2	4.9	2.3	.4	.0	125	.0	11.9	11.2	12.7	11.0	12.7	11.0	13.0	10.9		
NW	7.3	20.4	11.7	.9	.0	427	.0	40.4	13.0	38.6	37.3	38.6	37.3	44.3	41.2		
VAR	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
CALM	6.2	470	203	24	0	66	.0	6.2	.0	9.1	5.1	9.1	5.1	5.1	5.9		
TOT OBS	363	44.5	18.9	2.3	.0	1057	.0	100.0	10.6	253	257	253	257	276	276		
TOT PCT	34.3	44.5	18.9	2.3	.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0		

FEBRUARY

PERIOD: (PRIMARY) 1948-1971  
(OVER-ALL) 1864-1971

AREA 0023 N. E. PERSIAN GULF  
27.2N 51.8E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
0003	9.1	7.9	40.7	36.0	6.3	.0	.0	10.2	100.0	253
0609	5.1	12.5	40.9	35.0	6.2	.4	.0	10.3	100.0	257
1215	5.1	6.5	42.4	35.5	9.8	.7	.0	11.5	100.0	276
1821	5.9	7.7	45.0	35.1	6.3	.0	.0	10.4	100.0	271
TOT	66	91	447	374	76	3	0	10.6		1057
PCT	6.2	8.6	42.3	35.4	7.2	.3	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)  
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8-10	TOTAL DBSCO	MEAN CLOUD COVER	TOTAL DBS
N	5.7	1.2	1.1	1.2	75	2.4	75
NE	1.7	.6	.7	.7	29	3.6	29
E	2.7	.8	1.2	1.0	46	3.4	46
SE	5.3	2.3	2.6	3.0	106	3.9	106
S	.9	.3	1.4	.6	24	4.7	24
SW	1.5	.7	1.4	.2	17	2.6	17
W	9.7	1.1	1.4	.6	102	1.6	102
NW	32.5	3.7	4.4	3.0	351	1.7	351
VAR	.0	.0	.0	.0	0	.0	0
CALM	5.3	.1	1.0	.2	54	1.3	54
TOT DBS	526	83	114	84	807	2.3	807
TOT PCT	65.2	10.3	14.1	10.4	100.0		

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT) NH > 478  
AND OCCURRENCE OF NH < 578 BY WIND DIRECTION

WIND DIR	000	149	150	299	300	599	600	999	1000	2000	3499	4999	5000	6499	7999	8000+	NH < 578 ANY HGT	TOTAL DBS
N	.0	.0	.0	.0	.1	.1	.1	.1	.5	.3	.2	.2	.1	.0	.0	.2	7.8	75
NE	.0	.0	.0	.0	.0	.0	.1	.1	.3	.2	.0	.0	.0	.0	.0	.1	3.0	29
E	.0	.0	.0	.0	.0	.0	.1	.1	.4	.4	.4	.0	.4	.0	.0	.3	4.1	46
SE	.0	.1	.0	.0	.0	.0	.4	.4	.4	.2	.2	.2	.1	.2	.0	1.0	10.3	106
S	.0	.0	.0	.0	.0	.0	.0	.0	.1	.4	.1	.0	.0	.0	.0	.2	2.2	24
SW	.1	.1	.0	.0	.0	.0	.1	.1	.1	.0	.2	.0	.0	.0	.0	.0	1.5	17
W	.0	.0	.0	.0	.0	.0	.1	.1	.2	.4	.2	.0	.0	.2	.0	.3	11.3	102
NW	.0	.0	.0	.0	.0	.0	.2	1.3	1.3	.8	.2	.0	.0	.2	.0	.8	39.0	351
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
CALM	.1	.1	.0	.0	.0	.0	.0	.0	.4	.1	.0	.0	.0	.0	.0	.1	5.3	54
TOT DBS	3	3	.0	.0	.1	.1	.8	3.0	3.0	2.9	1.9	.5	.5	.5	.5	24	687	807
TOT PCT	.4	.4	.0	.0	.1	.1	1.0	3.7	3.7	3.6	1.9	.6	.6	.6	.6	3.0	80.1	100.0

PERIOD: (PRIMARY) 1948-1971  
(OVER-ALL) 1864-1971

FEBRUARY

AREA 0023 N. E. PERSIAN GULF  
27.2N 51.9E

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE  
OF CEILING HEIGHT (NH >4/8) AND VSBY (NH)

CEILING (FEET)	OR >10	OR >5	OR >2	OR >1	OR >1/2	OR >1/4	OR >50%	OR >50
OR >6500	2.6	3.7	3.8	3.8	3.8	3.8	3.8	3.8
OR >5000	2.9	4.1	4.4	4.4	4.4	4.4	4.4	4.4
OR >3500	4.2	6.0	6.4	6.4	6.4	6.4	6.4	6.4
OR >2000	7.3	9.6	10.1	10.1	10.1	10.1	10.1	10.1
OR >1000	9.8	13.0	13.7	13.7	13.8	13.8	13.8	13.8
OR >600	10.2	13.7	14.6	14.6	14.8	14.8	14.8	14.8
OR >300	10.3	13.8	14.8	14.8	14.9	14.9	14.9	14.9
OR >150	10.3	13.8	14.8	14.8	14.9	14.9	14.9	14.9
OR > 0	10.3	13.8	14.8	14.9	15.0	15.0	15.2	15.2
TOTAL	86	115	124	124	125	125	127	127

TOTAL NUMBER OF OBS: 833

PCT FREQ NH <5/8: 84.8

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	9	10	TOTAL
38.0	9.9	7.4	5.1	4.0	3.0	2.8	2.3	3.2	6.1	2.1	8.0	880

PERIOD: (PRIMARY) 1948-1971  
(OVER-ALL) 1864-1971

FEBRUARY

AREA 0023 N. E. PERSIAN GULF  
27.2N 31.8E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF  
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

WIND (INH)	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
PCP	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1	
NO PCP	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	.2	
TOT %	.0	.0	.0	.1	.0	.1	.0	.0	.0	.1	.3	
PCP	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	
NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT %	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	
PCP	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	.1	
NO PCP	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2	
TOT %	.0	.0	.0	.1	.1	.0	.0	.2	.0	.0	.3	
PCP	.2	.0	.1	.1	.0	.1	.0	*	.0	.0	.3	
NO PCP	.1	.0	.2	.1	.2	.1	.3	.7	.0	.1	1.8	
TOT %	.3	.0	.3	.2	.2	.2	.3	.7	.0	.1	2.3	
PCP	.3	*	.1	.3	.1	.0	.0	.1	.0	.0	.9	
NO PCP	1.7	.5	.7	1.6	.3	.3	2.0	5.1	.0	.8	12.9	
TOT %	2.0	.6	.7	1.8	.4	.3	2.0	3.2	.0	.8	13.8	
PCP	.1	.1	.3	.1	.0	.0	.0	.6	.0	.0	1.2	
NO PCP	7.4	3.0	4.1	10.7	2.6	1.6	10.0	26.4	.0	3.3	81.9	
TOT %	7.5	3.1	4.9	10.8	2.6	1.6	10.0	37.0	.0	3.3	83.1	
TOT OBS	9.8	3.7	6.0	13.1	3.2	2.3	12.3	43.2	.0	6.6	100.0	884



PERIOD: (PRIMARY) 1948-1971  
(OVER-ALL) 1804-1971

FEBRUARY

AREA 0023 N. E. PERSIAN GULF  
27.2N 51.8E

TABLE 9  
PERCENT FREQ OF WIND DIRECTION VS WIND SPEED  
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPO KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.1
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	.1
	22+	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1	.3	.3
	TOT X	.0	.0	.0	.1	.0	.1	.0	.0	.0	.1	.3	.3
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	.1
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT X	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	.1
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	.1
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT X	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	.1
2<5	0-3	.0	.0	.2	.0	.0	.0	.0	.0	.0	.1	.3	.3
	4-10	.1	.0	.2	.2	.1	.1	.2	.3	.0	.0	1.2	.9
	11-21	.1	.0	.2	.0	.1	.0	.1	.1	.0	.0	.2	.2
	22+	.0	.0	.3	.3	.2	.2	.4	.7	.0	.1	2.7	.7
	TOT X	.2	.0	.5	.5	.3	.3	.7	1.1	.0	.2	4.2	1.9
5<10	0-3	.1	.2	.4	.5	.2	.1	.1	.2	.0	.7	2.4	.4
	4-10	.7	.3	.2	.7	.2	.3	.8	1.2	.0	.0	3.2	.3
	11-21	1.0	.1	.2	1.1	.0	.0	.6	2.4	.0	.0	5.3	.3
	22+	.0	.0	.0	.1	.0	.0	.3	5.1	.0	.7	14.0	.1
	TOT X	1.8	.6	.6	2.4	.4	.4	1.8	8.7	.0	.7	22.4	1.1
10+	0-3	.6	.4	.6	.7	.6	.3	1.0	1.4	.0	3.3	11.0	.0
	4-10	2.6	2.2	3.1	6.2	1.6	.7	5.4	14.0	.0	.0	36.7	.7
	11-21	2.6	.4	1.4	4.5	.5	.3	2.6	17.0	.0	.0	29.3	.3
	22+	.7	.0	.1	.0	.0	.1	1.3	3.5	.0	.0	5.6	.6
	TOT X	7.5	3.0	5.2	11.3	2.6	1.5	10.2	36.0	.0	3.3	82.6	.6
TOT OBS		9.5	3.6	6.5	14.3	3.2	2.1	12.4	42.0	.0	6.2	100.0	977
TOT PCT													

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AREA: 0023 N. E. PERSIAN GULF  
27.2N 51.0E

PERIOD: (PRIMARY) 1948-1971  
(OVER-ALL) 1854-1971

TABLE 10  
PERCENT FREQUENCY OF CEILING HEIGHTS (FEET) NH > 4/8) AND  
OCCURRENCE OF NH < 5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	.5	.0	.5	.0	3.7	3.7	2.3	.5	.5	3.7	15.1	84.9	218
06009	.5	.0	.0	1.5	2.9	3.4	1.5	.5	1.5	3.4	15.2	84.8	204
12013	.4	.0	.0	1.3	3.8	3.8	2.5	.8	.4	3.3	16.3	83.7	239
18021	.0	.0	.0	1.0	3.8	3.3	1.0	.5	.0	2.4	12.0	88.0	209
TOT PCT	.3 .3	.0 .0	.1 .1	.8 .9	3.1 3.6	3.1 3.6	1.8 1.8	.5 .6	.5 .6	.5 3.2	128 14.7	742 85.3	870 100.0

TABLE 11

PERCENT FREQUENCY VSBY (NH) BY HOUR

HOUR (GMT)	< 1/2	1/2-1	1-2	2-5	5-10	10+	TOTAL OBS
00003	.5	.5	.0	1.0	10.9	87.3	204
06009	.0	.0	.6	3.0	12.1	84.9	199
12013	.4	.0	.0	1.9	12.7	85.1	228
18021	.0	.0	.0	3.0	10.4	86.6	202
TOT PCT	.2 .2	.1 .1	.0 .0	18 2.2	96 11.5	716 86.0	833 100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NH) AND/OR  
CEILING HGT (FEET) NH > 4/8) BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AN05+	NH <5/8 AND 5+	TOTAL OBS
00003	.5	1.5	2.5	14.2	83.3	204
06009	.5	.5	4.5	12.1	83.4	199
12015	.4	.4	3.1	14.9	82.0	228
18021	.0	.0	3.5	10.4	86.1	202
TOT	3	5	28	108	697	833
PCT	.4	.6	3.4	13.0	83.7	100.0

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PERIOD: (PRIMARY: 1948-1971  
(OVER-ALL: 1954-1971)

AREA 0023 N. E. PERSIAN GULF  
27.2N 51.8E

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
60/64	.0	.0	.3	.1	.7	.1	.0	.0	9	1.3
75/79	.0	.0	.1	.3	1.3	.6	.6	.0	20	2.9
70/74	.0	.0	.1	1.7	4.4	7.6	5.7	4.1	170	23.8
65/69	.0	.0	.4	6.0	11.8	13.0	10.4	6.2	341	47.8
60/64	.0	.0	.3	4.1	8.5	5.2	4.2	1.7	171	23.9
55/59	.0	.0	.0	.0	.1	.3	.0	.0	3	.4
TOTAL	0	0	9	87	193	191	149	85	714	100.0
PCT	.0	.0	1.3	12.2	27.0	26.8	20.9	11.9		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
60/64	.1	.0	.0	.1	.0	.0	.2	.5	.0	.3
75/79	.2	.0	.1	.5	.0	.0	.3	1.2	.0	.6
70/74	1.2	1.3	2.2	4.6	.8	.7	3.8	6.9	.0	2.4
65/69	3.7	1.5	3.0	6.8	1.8	.6	6.9	19.7	.0	3.5
60/64	3.3	.9	.5	.5	.5	.5	2.1	15.1	.0	.7
55/59	.1	.0	.0	.0	.0	.0	.0	.3	.0	.0
TOTAL	61	25	41	89	22	14	95	311	0	53
PCT	8.6	3.6	5.8	12.5	2.2	2.0	13.4	43.6	.0	7.5

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEC F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
0000	85	73	71	66	61	58	58	66.2	259
0600	83	80	75	66	62	60	58	68.6	258
1200	84	82	78	69	62	61	60	69.1	274
1800	75	73	72	66	61	60	59	66.5	275
TOT	85	80	75	67	61	60	58	67.6	1066

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
0000	.0	8.4	24.1	24.6	25.1	17.8	76	191
0600	.0	15.6	27.7	26.0	22.5	6.1	72	173
1200	.0	19.0	31.1	26.2	15.4	7.7	70	195
1800	.0	10.1	25.0	29.3	21.3	14.4	73	188
TOT	0	99	202	198	158	90	73	747

PERIOD: (PRIMARY) 1948-1971  
(OVER-ALL) 1864-1971

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AREA 0023 N. E. PERSIAN GULF  
27.2N 51.8E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)  
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	57	61	65	69	73	77	81	TOT	W	NO FOG
9/10	.0	.0	.0	.0	.1	.3	.3	3	.0	.4
7/8	.0	.0	.0	.0	.0	.7	.1	6	.0	.8
6	.0	.0	.0	.3	.4	.0	.0	5	.0	.7
5	.0	.0	.0	.0	.8	.4	.1	10	.0	1.4
4	.0	.0	.4	.5	.5	.1	.0	12	.0	1.6
3	.0	.1	.4	.5	.9	.3	.0	17	.0	2.3
2	.0	.3	.9	3.7	.4	.0	.0	39	.0	5.3
1	.0	.5	1.2	3.1	1.2	.1	.0	46	.0	6.2
0	.0	1.1	2.7	6.5	.8	.0	.0	82	.0	11.1
-1	.1	2.0	3.8	5.3	1.1	.0	.0	91	.0	12.3
-2	.1	3.0	4.2	4.3	.1	.0	.0	87	.0	11.8
-3	.3	2.3	5.3	3.4	.0	.0	.0	83	.0	11.3
-4	.1	2.6	6.3	1.5	.1	.0	.0	30	.0	10.9
-5	.1	2.0	4.9	.5	.1	.0	.0	36	.1	7.5
-6	.1	3.0	3.4	.8	.3	.0	.0	56	.0	7.6
-7/-9	.5	2.8	2.0	.0	.0	.0	.0	40	.0	5.4
-9/-10	.3	1.9	.5	.0	.0	.0	.0	20	.0	2.7
-11/-13	.4	.1	.0	.0	.0	.0	.0	4	.0	.5
TOTAL	16	161	268	225	51	12	4	737	1	736
PCT	2.2	21.8	36.4	30.5	6.9	1.6	.5	100.0	.1	99.9

PERIOD (PRIMARY)  
(OVER-ALL) 1963-1971

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AREA 0023 N. E. PERSIAN GULF  
27.2N 51.9E

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.4	.0	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0
1-2	.9	3.5	.5	.0	.0	.0	4.9	.0	.7	.5	.0	.0	.0	1.2
3-4	.0	.4	1.9	.0	.0	.0	2.2	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.5	.9	.0	.0	.0	1.3	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.5	.0	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-28	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.9	4.8	3.7	.0	.0	.0	9.3	.0	.7	.5	.0	.0	.0	1.2

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.5	.0	.0	.0	.0	.5	.0	1.1	.1	.0	.0	.0	1.2
1-2	.0	.7	1.1	.0	.0	.0	1.8	.5	4.6	2.8	.0	.0	.0	7.9
3-4	.0	.5	.9	.0	.0	.0	1.3	.0	1.5	2.6	.0	.0	.0	4.0
5-6	.0	.0	.5	.0	.0	.0	.5	.0	1.0	1.0	.0	.0	.0	2.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.5	.0	.0	.0	.0	.5
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.7	2.4	.0	.0	.0	4.1	.5	9.7	6.5	.0	.0	.0	15.6

PERIOD: (PRIMARY)  
(OVER-ALL) 1963-1971

FEBRUARY

TABLE 18

AREA 0023 N. E. PERSIAN GULF  
27.2N 51.8E

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	2.0	1.4	.4	.0	.0	.0	2.7	.5	1.1	.0	.0	.0	.0	.6
1-2	.0	1.6	.0	.0	.0	.0	1.6	.0	.1	.0	.0	.0	.0	.1
3-4	.0	.5	.0	.0	.0	.0	.5	.0	.5	.0	.0	.0	.0	.5
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-80	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.0	2.4	.4	0	.0	.0	4.8	.5	.7	.0	.1	.0	.0	1.3

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.5	1.3	.0	.0	.0	.0	2.8	1.0	2.1	.5	.0	.0	.0	3.5
1-2	.0	2.8	.4	.0	.0	.0	3.2	.1	11.2	6.0	.0	.0	.0	17.3
3-4	.0	1.2	1.3	.0	.0	.0	2.6	.0	7.2	10.0	3.0	.0	.0	17.2
5-6	.0	.5	.9	.7	.0	.0	2.1	.0	.0	7.6	1.5	.0	.0	10.6
7	.0	.0	.4	.0	.0	.0	.4	.0	.0	1.1	.5	.0	.0	3.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	.0	.0	.5
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	.0	.0	.5
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-80	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.5	5.9	2.9	.7	.0	.0	11.0	1.1	20.5	25.1	5.5	.5	.0	52.7

PERIOD (PRIMARY)  
(OVER-ALL) 1963-1971

FEBRUARY

AREA 0023 N. E. PERSIAN GULF  
27.2N 51.8E

TABLE 18 (CONT)

WIND SPEED (KTS) VS SEA HEIGHT (FT)								TOT CHS
HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	14.0	5.7	.9	.0	.0	.0	20.5	
1-2	1.3	23.1	10.0	.0	.0	.0	34.5	
3-4	.0	10.5	14.8	.0	.0	.0	25.3	
5-6	.0	1.7	9.6	3.5	.0	.0	4.8	
7	.0	.4	1.7	1.3	.4	.0	3.9	
8-9	.0	.0	.0	.4	.0	.0	.4	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	15.3	41.5	37.1	5.7	.4	.0	100.0	229

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+ TOTAL	MEAN HGT
<6	6.9	19.8	21.3	8.1	1.4	.5	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	348
6-7	.0	1.2	3.0	5.1	2.7	.7	.5	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	80
8-9	.0	.0	.5	.8	1.4	.7	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	23
10-11	.0	.2	.0	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3
12-13	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1
>13	.0	.0	.0	.2	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2
INDEX	15.4	4.2	2.4	.7	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	135
TOTAL	132	150	163	89	32	13	7	3	1	0	0	0	0	0	0	0	0	0	0	592
PCT	22.3	25.3	27.9	15.0	5.4	2.2	1.2	.5	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0

PERIOD: (PRIMARY) 1942-1971  
(OVER-ALL) 1870-1971

MARCH

AREA 0023 N. E. PERSIAN GULF  
27.2N 51.8E

TABLE 1  
PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	RAIN SHWR	ORCL	PRECIPITATION TYPE				HAIL	PCT FREQ PCPN AT OBS TIME	TOTAL PCPN OBS	THOR		OTHER WEATHER PHENOMENA							TOTAL OBS
			PCPN	FRZG	SNOW	OTHER						PCPN	FG	SMOKE	OUST	BLWG	DUST	SIG	
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.1	.1	.7	.3	.3	.1	.1	.1	79
N.E	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	19
E	.2	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	55
S.E	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	105
S	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	31
S.W	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	32
W	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	160
N.W	.2	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	394
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	74
TOT OBS	.9	.3	.3	.0	.0	.0	.0	.0	.0	.6	.8	.6	.6	.6	.6	.6	.6	.6	953
TOT PCT	.3	.3	.3	.0	.0	.0	.0	.0	.0	.6	.8	.6	.6	.6	.6	.6	.6	.6	100.0

TABLE 2  
PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	RAIN SHWR	DRZL	PRECIPITATION TYPE				HAIL	PCT FREQ PCPN AT OBS TIME	TOTAL PCPN OBS	THOR		OTHER WEATHER PHENOMENA							TOTAL OBS
			PCPN	FRZG	SNOW	OTHER						PCPN	FG	SMOKE	OUST	BLWG	DUST	SIG	
0003	.4	.0	.0	.0	.0	.0	.0	.0	.0	.9	.4	.4	.6	.2	.3	.3	.3	.3	21.0
0609	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	25.5
1215	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	29.4
1821	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	24.9
TOT	1.0	.3	.0	.0	.0	.0	.0	.0	.0	.6	.8	.6	.6	.6	.6	.6	.6	.6	100.0
PCT	.3	.3	.0	.0	.0	.0	.0	.0	.0	.6	.8	.6	.6	.6	.6	.6	.6	.6	100.0



PERIOD: (PRIMARY) 1242-1971  
(OVER-ALL) 1870-1971

MARCH

AREA 0023 N. E. PERSIAN GULF  
27.2N 51.8E

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPO	HOUR (GMT)							
	0-5	4-10	11-21	22-33	34-47				48+	00	03	06	09	12	15	18
N	1.3	4.2	2.9	.7	.0	.0	107	9.0	11.0	20.2	10.7	8.1	4.7	6.6	9.2	13.4
NE	.5	1.7	.5	.0	.0	.0	31	2.7	4.7	.0	2.3	5.9	1.6	1.3	2.5	.9
E	1.0	3.6	1.8	.2	.0	.0	78	6.6	5.6	7.7	6.9	7.4	4.8	6.6	7.2	15.2
SE	1.6	5.5	2.8	.3	.2	.0	123	10.4	6.1	9.6	9.5	8.1	16.1	10.5	9.1	11.6
S	.7	2.3	.5	.1	.0	.0	42	3.6	1.9	5.8	2.1	4.4	4.8	6.6	4.2	3.6
SW	.3	2.1	.5	.3	.0	.0	37	3.1	3.4	9.6	2.7	6.6	2.3	2.0	3.2	.9
W	2.6	7.0	5.9	1.1	.0	.0	196	16.6	16.7	11.5	15.1	14.3	18.6	17.8	17.2	14.3
NW	3.1	13.7	17.3	5.6	.1	.0	471	39.7	38.2	31.7	41.6	37.9	42.0	43.4	39.7	29.5
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	8.3	474	382	97	3	.0	98	8.3	12.4	3.8	9.1	7.4	5.2	5.3	7.8	10.7
TOT OBS	230	474	382	97	3	.0	1186	100.0	225	26	242	68	288	38	243	156
TOT PCT	19.4	40.0	32.2	8.2	.3	.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPO	HOUR (GMT)											
	0-6	7-16	17-27	28-40	41+				00	03	06	09	12	15	18	21				
N	3.5	4.1	1.4	.1	.0	107	9.0	10.1	12.0	10.2	4.9	9.2	2.2							
NE	1.5	1.1	.1	.0	.0	71	2.7	7.1	4.2	5.1	1.3	8.7	2.2							
E	2.9	3.1	.5	.0	.0	78	6.6	8.8	5.8	7.0	5.0	8.7	9.5							
SE	4.6	4.8	.8	.3	.0	123	10.4	9.1	6.5	9.2	15.4	9.5	4.1							
S	2.0	1.2	.3	.0	.0	42	3.6	7.3	2.3	2.6	5.0	4.8	1.8							
SW	1.2	1.7	.2	.1	.0	37	3.1	9.4	4.1	5.5	2.3	16.6	37.8							
W	5.8	8.1	2.6	.2	.0	196	16.6	10.3	16.1	14.9	18.5	16.6	10.6							
NW	7.8	19.1	12.1	.8	.0	471	39.7	13.1	37.5	40.8	42.2	37.8	1.0							
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0							
CALM	8.3	512	212	18	.0	98	8.3	.0	11.6	8.7	5.2	8.4	1.0							
TOT OBS	144	43.2	17.6	1.5	.0	1186	100.0	10.1	251	310	324	299	100.0							
TOT PCT	37.4	43.2	17.6	1.5	.0	100.0	100.0	10.1	100.0	100.0	100.0	100.0	100.0							

PERIOD: (PRIMARY) 1942-1971  
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AREA 0023 N. E. PERSIAN GULF  
27.2N 51.8E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47	48+				
0003	11.6	11.2	43.8	25.9	7.6	.0	.0	.0	9.2	100.0	251
0609	8.7	12.3	34.2	35.8	9.0	.0	.0	.0	10.4	100.0	310
1215	5.2	9.2	42.0	34.0	8.9	.6	.0	.0	10.9	100.0	326
1821	8.4	12.0	40.5	31.8	7.0	.3	.0	.0	9.8	100.0	399
TOT	98	132	474	382	97	3	0	10.1			1186
PCT	8.3	11.1	40.0	32.2	8.2	.3	.0			100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)  
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8-10	TOTAL OBS	MEAN CLOUD COVER	
						0850	1000
N	5.3	.6	1.1	1.3	68	2.5	2.5
NE	1.0	.4	.3	.5	18	3.2	3.2
E	2.1	.8	2.4	.9	51	4.0	4.0
SE	4.7	1.4	3.3	1.5	89	3.6	3.6
S	1.3	.4	1.2	.7	26	3.8	3.8
SW	1.7	.3	.3	.7	23	3.1	3.1
W	10.9	2.5	2.1	1.6	139	2.2	2.2
VAR	29.1	3.5	6.4	2.2	338	1.9	1.9
CALM	.0	.0	.0	.0	0	1.6	1.6
TOT OBS	5.6	.7	1.3	.1	64	2.4	2.4
TOT PCT	61.8	10.7	18.4	9.1	100.0		

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT) NH >4/8)  
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8-10	TOTAL OBS	CEILING HEIGHTS (FT) NH >4/8)									
						000	149	150	299	300	599	600	999	3500	6500
N	5.3	.6	1.1	1.3	68	.1	.0	.0	.0	.0	.0	.1	.1	.3	.1
NE	1.0	.4	.3	.5	18	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
E	2.1	.8	2.4	.9	51	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
SE	4.7	1.4	3.3	1.5	89	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
S	1.3	.4	1.2	.7	26	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
SW	1.7	.3	.3	.7	23	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
W	10.9	2.5	2.1	1.6	139	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
VAR	29.1	3.5	6.4	2.2	338	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT OBS	5.6	.7	1.3	.1	64	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	61.8	10.7	18.4	9.1	100.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0

PERIOD: (PRIMARY) 1942-1971  
(OVER-ALL) 1870-1971

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TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE  
OF CEILING HEIGHT (NH > 4/8) AND VSBY (NH)

CEILING (FEET)	OR >10	OR >5	OR >2	OR >1	OR >1/2	OR >1/4	OR >50YD	OR >0
OR >6500	2.2	3.1	3.1	3.1	3.1	3.1	3.1	3.1
OR >5000	3.5	4.6	4.6	4.6	4.6	4.6	4.6	4.6
OR >3500	5.9	6.5	6.5	6.5	6.5	6.5	6.5	6.5
OR >2000	6.0	8.1	8.5	8.5	8.5	8.5	8.5	8.5
OR >1000	7.6	11.0	12.4	12.4	12.4	12.4	12.4	12.4
OR >800	8.5	12.3	13.9	13.9	13.9	13.9	13.9	13.9
OR >600	8.5	12.3	13.9	13.9	13.9	13.9	13.9	13.9
OR >400	8.5	12.3	13.9	13.9	13.9	13.9	13.9	13.9
OR >250	8.5	12.3	13.9	13.9	13.9	13.9	13.9	13.9
OR >150	8.5	12.3	13.9	13.9	13.9	13.9	13.9	13.9
OR >100	8.5	12.3	13.9	13.9	13.9	13.9	13.9	13.9
OR >50	8.5	12.3	13.9	13.9	13.9	13.9	13.9	13.9
OR >0	8.5	12.3	13.9	13.9	13.9	13.9	13.9	13.9
TOTAL	73	107	122	122	122	122	122	122

TOTAL NUMBER LF OBS: 863

PCT FREQ NH < 5/8: 55.9

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	9	TOTAL
	59.4	12.5	6.1	4.1	2.3	3.7	3.7	3.0	4.7	.5	928

PERIOD: (PRIMARY) 1942-1971  
(OVER-ALL) 1870-1971

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TABLE B

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF  
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
<1/2	.0	.0	.1	.1	.0	.0	.0	.1	.0	.1	.4	
TOT %	.0	.0	.1	.1	.0	.0	.0	.1	.0	.1	.4	
PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	.0	.0	.0	.0	.0	.0	.2	.5	.0	.0	.6	
TOT %	.0	.0	.0	.0	.0	.0	.2	.5	.0	.0	.6	
PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	.1	.0	.0	.0	.0	.0	.4	.7	.0	.0	1.2	
TOT %	.1	.0	.0	.0	.0	.0	.4	.7	.0	.0	1.2	
PCP	.0	.1	.1	.0	.2	.1	.0	.2	.0	.0	.6	
2<5	.2	.0	.1	.3	.2	.1	.7	2.3	.0	.2	7.1	
TOT %	.2	.0	.2	.3	.4	.2	.7	2.5	.0	.2	4.7	
PCP	.0	.1	.2	.1	.1	.1	.1	.1	.0	.0	.6	
5<10	2.2	.6	.9	3.8	.9	.8	1.8	8.3	.0	1.2	20.5	
TOT %	2.2	.6	1.1	3.9	1.0	.9	1.9	8.4	.0	1.2	21.1	
PCP	.0	.1	.0	.1	.0	.0	.1	.3	.0	.0	.5	
10+	3.9	1.3	4.4	6.8	1.9	2.3	13.6	29.0	.0	6.3	71.4	
TOT %	3.9	1.4	4.4	6.9	1.9	2.3	13.6	29.2	.0	6.3	71.9	
TOT OBS	8.4	2.1	5.8	11.1	3.2	3.4	16.8	41.4	.0	7.8	100.0	948
TOT PCT												

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PERIOD: (PRIMARY) 1942-1971  
(OVER-ALL) 1970-1971

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TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED  
WITH VARYING VALUES OF VISIBILITY

WIND SPEED (KTS)	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT TOTAL
0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1
4-10	.0	.0	.2	.1	.0	.0	.0	.1	.0	.0	.4
11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.4
TOT %	.0	.0	.2	.1	.0	.0	.0	.1	.0	.0	.0
0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1
11-21	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.3
22+	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.3
TOT %	.0	.0	.0	.0	.0	.0	.1	.4	.0	.0	.5
0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
4-10	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.2
11-21	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.3
22+	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.3
TOT %	.0	.0	.0	.0	.0	.0	.3	.6	.0	.0	1.0
0-3	.0	.0	.0	.0	.0	.0	.0	.1	.0	.2	.5
4-10	.0	.0	.1	.1	.1	.1	.2	.1	.0	.0	.7
11-21	.0	.0	.2	.1	.1	.1	.2	.9	.0	.0	1.7
22+	.0	.0	.0	.0	.0	.0	.2	1.0	.0	.0	1.3
TOT %	.0	.0	.3	.2	.2	.3	.6	2.1	.0	.2	4.2
0-3	.1	.2	.1	.4	.1	.1	.2	.4	.0	1.2	2.9
4-10	1.0	.3	.4	1.7	.6	.3	1.0	1.7	.0	.0	7.1
11-21	.5	.0	.6	1.2	.1	.1	.6	3.7	.0	.0	6.8
22+	.4	.0	.0	.3	.0	.0	.1	2.0	.0	.0	2.9
TOT %	2.0	.5	1.1	3.6	.9	.8	1.6	7.8	.0	1.2	16.6
0-3	1.1	.2	.3	1.3	.4	.2	2.1	2.5	.0	6.6	15.3
4-10	3.2	1.0	3.0	4.0	1.6	1.4	5.8	1.8	.0	.0	31.9
11-21	2.4	.3	1.2	1.6	.1	.3	5.0	1.9	.0	.0	23.7
22+	.2	.0	.2	.2	.0	.1	.8	1.7	.0	.0	3.3
TOT %	6.9	1.6	5.2	7.1	2.2	2.1	13.6	29.0	.0	6.6	74.2
TOT DRS	9.1	2.1	6.7	10.9	3.4	3.1	16.5	40.0	.0	8.1	100.0
TOT PCT											1117

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PERIOD: (PRIMARY) 1942-1971  
(OVER-ALL) 1870-1971

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND  
OCCURRENCE OF NH <5/6 8Y HOUR

HOUR (GMT)	000 149	150 209	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL ANY HGT	NH <5/8 ANY HGT	TOTAL D8S
00003	.0	.0	.0	1.6	3.1	1.0	1.0	2.6	.5	2.6	12.6	87.4	171
06009	.9	.0	.0	1.4	4.5	4.5	1.8	.5	.0	1.4	14.9	85.1	222
12015	.4	.0	.0	1.5	4.5	1.1	2.6	1.1	.8	3.4	15.5	84.5	265
18021	.0	.0	.0	1.3	2.6	.9	1.3	1.8	.9	2.2	11.0	89.0	228
TOT PCT	3 .3	0 .0	0 .0	13 1.4	34 3.8	17 1.9	16 1.8	13 1.4	5 .6	22 2.4	123 13.6	7.3 86.4	906 100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) 8Y HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL D8S
00003	.6	.0	.6	4.0	16.4	78.5	177
06009	.5	.5	.9	5.2	16.0	77.0	213
12015	.0	1.2	.0	4.2	23.6	71.0	259
18021	.0	.0	.0	5.5	14.7	79.7	217
TOT PCT	2 .2	0 .5	3 .3	41 4.7	156 18.0	660 76.2	866 100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR  
CEILING HGT (FEET, NH >4/8) 8Y HOUR

HOUR (GMT)	<150 <50VD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL D8S
00003	.0	.6	6.2	10.7	83.1	177
06009	1.4	1.9	8.5	10.8	80.8	213
12015	.8	1.2	6.9	12.4	80.7	259
18021	.0	.0	6.9	9.7	83.4	217
TOT PCT	5 .6	8 .9	62 7.2	95 11.0	709 81.9	866 100.0

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PERIOD: PRIMARY) 1942-1971  
(OVER-ALL) 1870-1971

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TABLE 13

TEMP F	PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP										TOTAL OBS	PCT FREQ
	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100				
83/89	.0	.0	.0	.1	.0	.0	.1	.0			2	.3
80/84	.0	.0	.0	.1	.1	.0	.4	.1			19	2.3
75/79	.0	.0	.5	1.5	2.5	5.3	2.7	1.1			102	13.6
70/74	.0	.0	.7	3.3	8.8	13.6	10.0	5.9			317	42.4
65/69	.0	.0	.0	.9	4.0	9.5	8.7	4.0			282	35.0
60/64	.0	.0	.0	.1	.9	.9	.7	.9			46	6.1
TOTAL	.0	.0	.0	17	74	171	226	149	90		748	100.0
PCT	.0	.0	2.3	10.0	23.9	30.2	22.6	12.5				

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP										VAR	CALM
N	NE	E	SE	S	SW	W	NW				
.0	.0	.0	.1	.0	.0	.0	.0			.0	.1
.4	.0	.5	.3	.2	.0	.2	.7			.0	.1
.6	.3	1.4	3.1	.7	.4	2.7	3.1			.0	1.1
2.4	.8	3.3	5.4	1.5	1.0	8.9	13.2			.0	3.9
4.6	.6	.8	1.9	.9	1.3	5.0	18.2			.0	1.3
1.1	.3	.1	.1	.0	.2	.6	.1			.0	.1
.68	17	45	12	25	21	131	305			.0	50
9.2	2.3	6.1	11.0	3.4	2.9	17.5	40.9			.0	6.7

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR										TOTAL OBS
HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN		
00003	81	79	75	69	63	61	60	68.7		258
06009	83	82	79	71	64	61	60	71.1		322
12015	87	84	81	72	64	61	60	72.3		332
18021	84	80	75	70	64	60	60	69.2		314
TOT	87	82	79	70	63	61	60	70.4		1226

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR										TOTAL OBS
HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	
00003	.0	.0	.0	.0	.0	.0	.0	.0	78	177
06009	.0	.0	.0	.0	.0	.0	.0	.0	74	193
12015	.0	.0	.0	.0	.0	.0	.0	.0	70	217
18021	.0	.0	.0	.0	.0	.0	.0	.0	77	211
TOT	.0	.0	.0	.0	.0	.0	.0	.0	74	798

PERIOD: (PRIMARY) 1942-1971  
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TABLE 17

PCT 'REQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF 'FG (WITHOUT PRECIPITATION)  
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	57	61	65	69	73	77	81	85	TOT	M	W	MO FOG
14/16	.0	.0	.0	.0	.0	.0	.0	.1	2	.0	.0	.2
11/13	.0	.0	.0	.0	.4	.4	.8	.0	13	.0	.0	1.5
9/10	.0	.0	.0	.0	.6	.6	.1	.1	12	.0	.0	1.4
7/8	.0	.0	.0	.6	1.5	1.5	.5	.0	26	.4	.0	2.7
6	.0	.0	.0	.6	1.1	1.0	.2	.0	24	.0	.0	2.9
5	.0	.0	.1	1.4	1.8	1.2	.5	.0	34	.0	.0	4.0
4	.0	.0	.7	1.5	1.5	1.2	.0	.0	42	.1	.0	4.9
3	.0	.1	.6	1.8	3.0	.8	.1	.0	54	.0	.0	6.4
2	.0	.0	.6	3.6	3.5	.5	.1	.0	70	.1	.0	8.2
1	.0	.4	1.5	4.6	2.6	.4	.0	.0	80	.2	.0	9.3
0	.0	.6	3.1	5.8	2.9	.1	.0	.0	105	.0	.0	12.5
-1	.0	.7	3.3	6.1	2.0	.1	.0	.0	103	.0	.0	12.3
-2	.0	.4	3.7	4.9	.8	.0	.0	.0	82	.0	.0	9.8
-3	.0	.2	4.4	2.7	.5	.0	.0	.0	66	.0	.0	7.9
-4	.1	.8	2.7	1.5	.0	.0	.0	.0	42	.1	.0	4.9
-5	.0	.8	1.9	1.2	.4	.0	.0	.0	36	.0	.0	4.3
-6	.0	.4	1.3	.2	.0	.0	.0	.0	16	.0	.0	1.9
-7/-8	.0	.8	1.8	.2	.0	.0	.0	.0	24	.0	.0	2.9
-9/-10	.4	.6	.0	.1	.0	.0	.0	.0	9	.0	.0	1.1
TOTAL	.5	4.7	21.7	31.1	17.2	6.6	2.1	.2	840	.8	.0	83.2
PCT	.5	5.6	25.8	37.0	20.5	7.9	2.5	.2	100.0	1.0	.0	99.0



PERIOD: (PRIMARY)  
(OVER-ALL) 1903-1971

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TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.5	.0	.5	.0	.0	.0	.9	.0	.0	.0	.0	.0	.0	.0
1-2	.5	.8	.3	.0	.0	.0	1.6	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	1.5	.5	.0	.0	1.9	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.9	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.5	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.5	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-33	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.9	.8	3.2	1.7	.0	.0	6.5	.0	.0	.0	.0	.0	.0	.0

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HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.5	.9	.0	.0	.0	.0	1.4	.5	1.4	.0	.0	.0	.0	1.8
1-2	.5	.5	.7	.0	.0	.0	1.6	.0	4.5	3.8	.0	.0	.0	8.3
3-4	.5	.5	.0	.0	.0	.0	.9	.0	1.8	.0	.0	.0	.0	1.8
5-5	.0	.0	.0	.0	.0	.0	.0	.0	1.1	1.4	.0	.0	.0	1.5
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.4	1.8	.7	.0	.0	.0	3.8	.5	7.8	5.2	.0	.0	.0	13.4

MARCH

PERIOD: (PRIMARY)  
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TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S										SM										PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	.0	.0	.0	.0	.0	.3	.1	.5	.0	.0	.0	.0	.6	.1	.5	.0	.0	.0	.0	.6
1-2	.0	1.7	.0	.0	.0	.0	1.7	.1	1.7	.0	.0	.0	.0	1.8	.0	.0	.0	.0	.0	.0	1.8
3-4	.0	.8	.0	.0	.0	.0	.8	.0	.1	.1	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.2
5-6	.0	.3	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	2.8	.0	.0	.0	.0	3.2	.2	2.3	.1	.0	.0	.0	2.6	.0	.0	.0	.0	.0	.0	2.6

HGT	W										NW										PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.8	1.1	.0	.0	.0	.0	1.9	1.0	1.1	.0	.0	.0	.0	2.1	.0	.0	.0	.0	.0	.0	2.1
1-2	.3	3.2	1.5	.0	.0	.0	5.0	.5	8.0	.5	.0	.0	.0	13.0	.0	.0	.0	.0	.0	.0	13.0
3-4	.0	.9	3.7	.0	.0	.0	4.6	.0	.5	4.5	1.8	.0	.0	13.0	.0	.0	.0	.0	.0	.0	13.0
5-6	.0	.9	3.6	1.1	.0	.0	5.6	.0	.0	11.7	4.3	.0	.0	11.9	.0	.0	.0	.0	.0	.0	11.9
7	.0	.0	1.1	1.1	.0	.0	2.3	.0	.0	3.4	3.8	.0	.0	7.2	.0	.0	.0	.0	.0	.0	7.2
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.9	.5	.0	.0	1.8	.0	.0	.0	.0	.0	.0	1.8
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.0	.0	.9	.0	.0	.0	.0	.0	.0	.9
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.1	6.1	9.9	2.3	.0	.0	19.4	1.5	9.6	27.6	11.8	.5	.0	51.1	.0	.0	.0	.0	.0	.0	51.1

PERIOD: (PRIMARY)  
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MARCH

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TABLE 18 (CONT)

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	15.7	4.7	.4	.0	.0	.0	20.6	
1-2	1.6	17.6	9.4	.0	.0	.0	28.6	
3-4	.4	3.9	14.3	2.0	.0	.0	20.8	
5-6	.0	1.2	11.8	4.7	.0	.0	17.4	
7	.0	.0	3.9	4.7	.0	.0	8.6	
8-9	.0	.0	.8	.8	.4	.0	2.0	
10-11	.0	.0	.0	.8	.0	.0	.8	
12	.0	.0	.0	.8	.0	.0	.8	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-23	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.3	.0	.0	.0	
TOT PCT	17.6	27.5	40.6	13.7	.4	.0	100.0	255

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+ TOTAL	MEAN HGT
<1	6.4	22.0	19.2	6.6	2.2	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	363
1-2	.0	1.2	4.1	4.1	3.4	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3
3-4	.0	.0	.6	.9	2.0	.2	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5
5-6	.0	.0	.0	.3	.2	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5
7	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1
12-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1
14-15	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1
16-17	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1
18-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1
20-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1
22-23	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1
24-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1
26-27	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1
28-29	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1
30-31	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1
32-33	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1
34-35	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1
36-37	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1
38-39	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1
40-41	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1
42-43	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1
44-45	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1
46-47	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1
48-49	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1
50-51	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1
52-53	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1
54-55	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1
56-57	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1
58-59	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1
60-61	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1
62-63	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1
64-65	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1
66-67	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1
68-69	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1
70-71	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1
72-73	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1
74-75	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1
76-77	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1
78-79	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1
80-81	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1
82-83	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1
84-85	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1
86-87	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1
88-89	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1
90-91	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1
92-93	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1
94-95	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1
96-97	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1
98-99	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1
100-101	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1
TOTAL	150	173	162	82	54	10	5	2	3	0	0	0	0	0	0	0	0	0	0	153
PCT	23.4	27.0	25.3	12.6	8.4	1.6	.8	.3	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0

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TABLE 1

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	RAIN	RAIN SHR	DRZL	PRECIPITATION TYPE				HAIL	PCT FRO PCPN AT DB TIME	TOTAL PCPN OBS	THDR LTNG	OTHER WEATHER PHENOMENA						TOTAL OBS
				FRZG PCPN	SNOW PCPN	OTHER PCPN	FRZN PCPN					FOG PCPN	SMOKE HAZE	BLNG PCPN	OUST BLNG	NO SIG WEA		
N	.1	.0	.1	.0	.0	.0	.0	.0	.1	1	.3	.0	.8	.0	.8	6.3	70	
NE	.0	.0	.1	.0	.0	.0	.0	.0	.1	2	.1	.0	.1	.0	.2	2.4	22	
E	.1	.1	.4	.0	.0	.0	.0	.0	.3	2	.1	.0	.4	.0	.2	5.4	53	
SE	.1	.0	.0	.0	.0	.0	.0	.0	.1	0	.2	.0	.7	.0	.3	9.5	92	
S	.1	.0	.0	.0	.0	.0	.0	.0	.0	1	.1	.0	.2	.0	.4	3.5	36	
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.1	.0	.0	2.9	25	
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.2	1.5	.0	.5	17.4	163	
NW	.2	.0	.0	.0	.0	.0	.0	.0	.2	1	.7	.2	2.4	1.6	1.6	29.9	293	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.1	1.1	.0	.0	8.5	81	
TOT OBS	.5	.1	.2	.0	.0	.0	.0	.0	.8	7	1.4	.5	6.1	.3	.4	72.0	839	
TOT PCT	.5	.1	.2	.0	.0	.0	.0	.0	.8	7	1.4	.5	7.3	.4	.1	82.8	100.0	

TABLE 2

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	RAIN SHWR	RAIN SHWR	DRZL PCPN	PRECIPITATION TYPE				HAIL PCPN	PCT FREQ PCPN AT OB TIME	TOTAL PCPN OBS	THDR LTNG	OTHER WEATHER PHENOMENA						TOTAL OBS
				FRZG PCPN	SNOW PCPN	OTHER PCPN	FRZN PCPN					FOG PCPN	SMOKE HAZE	BLNG PCPN	OUST BLNG	NO SIG WEA		
0003	.5	.5	.5	.0	.0	.0	.0	.0	1.7	3	1.8	.5	6.0	.0	2.8	27.6	217	
0609	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.4	.9	6.3	.0	4.9	87.5	224	
1215	.9	.0	.0	.0	.0	.0	.0	.0	.9	2	.4	.9	9.1	.0	4.3	83.9	230	
1821	.5	.0	.5	.0	.0	.0	.0	.0	.9	2	2.7	.0	6.3	.0	5.0	85.1	222	
TOT	4	1	2	0	0	0	0	0	.8	7	1.2	5	6.2	.0	3.9	76.8	893	
PCT	.4	.1	.2	.0	.0	.0	.0	.0	.8	7	1.3	.6	5.5	.0	4.4	86.0	100.0	

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TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)										HOUR (GMT)				
	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	TOTAL	00	03	06	09	12
N	1.3	3.8	2.2	.7	.0	.0	81	7.9	10.1	10.8	2.9	7.1	7.1	8.0	4.7
NE	1.2	1.1	.6	.0	.0	.0	30	3.0	6.3	3.1	7.7	2.2	2.2	.0	3.1
E	.9	3.8	1.4	.5	.0	.0	63	6.2	7.7	6.6	3.8	9.4	9.4	3.0	3.1
SE	1.1	7.0	1.9	.5	.0	.0	113	11.1	8.6	10.1	7.7	9.3	12.5	13.2	7.1
S	.8	2.8	.6	.1	.0	.0	44	4.3	7.1	3.0	.0	4.1	4.5	7.0	2.4
SW	.6	1.8	.6	.0	.0	.0	30	2.9	7.1	2.6	1.9	2.8	6.0	2.8	9.5
W	2.2	9.8	6.2	.7	.0	.0	194	19.0	10.0	18.0	23.1	19.4	15.0	23.0	9.5
NW	2.9	15.8	14.7	2.5	.0	.0	368	36.0	11.4	32.4	49.0	34.9	47.0	34.6	64.3
VAR	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	4.6	475	283	47	1	.0	98	9.6	.0	13.4	3.8	11.1	4.0	7.3	4.8
TOT OBS	2.2	475	283	47	1	.0	1023	8.9	8.9	217	26	208	241	21	217
TOT PCT	25.7	46.4	28.2	4.6	.1	.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					41+	TOTAL OBS	PCT FREQ		MEAN SPD	HOUR (GMT)							
	0-6	7-16	17-27	28-40	FREQ			FREQ	00		03	06	09	12	15	18	21	
N	2.5	4.0	1.2	.1	.0	81	7.9	10.1	10.1	7.3	4.5	10.2						
NE	1.7	1.3	.0	.0	.0	30	3.0	6.3	3.6	1.7	3.7	3.5						
E	3.0	3.0	.2	.0	.0	63	6.2	7.7	6.3	8.1	4.0	12.0	12.0	12.0	12.0	12.0		
SE	4.8	5.4	.9	.0	.0	113	11.1	8.6	9.9	12.5	6.6	3.8	2.4	2.4	2.4	2.4		
S	2.7	1.4	.2	.0	.0	44	4.3	7.1	2.7	3.4	3.3	2.4	2.4	2.4	2.4	2.4		
SW	1.7	1.1	.1	.0	.0	30	2.9	7.1	.6	3.4	3.3	2.4	2.4	2.4	2.4	2.4		
W	6.2	10.3	2.2	.2	.0	194	19.0	10.0	13.5	18.5	21.9	16.8	16.8	16.8	16.8	16.8		
NW	3.6	19.6	6.2	.7	.0	368	36.0	11.4	34.2	37.2	37.0	35.6	35.6	35.6	35.6	35.6		
VAR	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
CALM	9.6	471	1.4	11	.0	98	9.6	.0	12.3	9.7	7.3	9.2	9.2	9.2	9.2	9.2		
TOT OBS	427	46.0	11.1	1.1	.0	1023	100.0	8.9	243	258	262	262	262	262	262	262		
TOT PCT	41.7	46.0	11.1	1.1	.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0		

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
0000	12.3	12.3	45.3	24.7	4.9	.4	.0	8.6	100.0	243
0600	9.7	12.0	49.2	25.2	3.9	.0	.0	8.5	100.0	258
1200	7.3	8.8	46.9	31.7	5.3	.0	.0	9.4	100.0	262
1800	9.2	11.5	44.2	30.8	4.2	.0	.0	9.2	100.0	260
TOT	98	114	475	288	47	1	0	8.9		1023
PCT	9.6	11.1	46.4	28.2	4.6	.1	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)  
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8-10	TOTAL OBS	MEAN CLOUD COVER
N	4.7	1.1	1.4	.9	58	2.4
NE	1.6	.2	.5	.4	19	2.5
E	3.8	.5	1.1	.9	46	2.7
SE	6.3	1.3	1.7	1.0	75	2.4
S	2.8	.1	.9	.3	29	2.3
SW	2.4	.1	.4	.4	23	1.9
W	15.8	1.8	1.8	.7	145	1.3
NW	25.1	3.8	4.0	1.6	253	1.7
VAR	.0	.0	.0	.0	0	.0
CALM	8.1	.4	1.1	.8	76	1.5
TOT OBS	51.5	67	93	33	728	1.9
TOT PCT	70.7	9.2	12.8	7.3	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT) NH > 478  
AND OCCURRENCE OF NH < 878 BY WIND DIRECTION

WIND DIR	000	150	300	500	1000	2000	3500	5000	6500	8000+	NH < 578 TOTAL
N	.1	.0	.0	.2	.8	.1	.1	.0	.1	.1	58
NE	.1	.0	.0	.1	.0	.2	.0	.0	.0	.0	49
E	.0	.0	.0	.0	.4	.5	.1	.0	.1	.0	46
SE	.0	.0	.0	.0	.3	.7	.1	.0	.1	.0	75
S	.0	.0	.0	.0	.0	.1	.2	.0	.0	.0	29
SW	.1	.0	.0	.0	.1	.0	.0	.0	.0	.0	23
W	.0	.0	.0	.0	.1	.1	.0	.0	.0	.1	145
NW	.1	.0	.0	.2	.8	.4	1.0	.2	.0	.8	253
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
CALM	.0	.0	.0	.0	1.0	.0	.0	.0	.0	.0	76
TOT OBS	3	0	0	5	26	17	9	4	11	648	728
TOT PCT	.4	.0	.0	.7	3.6	2.3	1.2	.7	.5	1.5	100.0

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TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE  
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	DR	DR	DR	DR	DR	DR	DR	CR
	>10	>5	>2	>1	>1/2	>1/4	>50Y0	>0
DR >6500	1.4	1.8	1.8	1.9	1.9	1.9	1.9	1.9
DR >5000	1.7	2.2	2.4	2.6	2.6	2.6	2.6	2.6
DR >3500	2.8	3.3	3.7	3.9	3.9	3.9	3.9	3.9
DR >2000	3.9	4.1	5.9	6.0	6.0	6.0	6.0	6.0
DR >1000	6.6	6.6	9.4	9.5	9.5	9.5	9.5	9.5
DR >600	7.1	7.3	10.0	10.2	10.2	10.2	10.2	10.2
DR >300	7.1	7.3	10.0	10.2	10.2	10.2	10.2	10.2
DR >150	7.1	7.3	10.0	10.2	10.2	10.2	10.2	10.2
DR >0	7.2	7.5	10.4	10.5	10.5	10.5	10.5	10.5
TOTAL	56	75	81	82	82	82	82	82

TOTAL NUMBER OF OBS 778

PCT FREQ NH <5/8 89.5

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS):

	0	1	2	3	4	5	6	7	8	9	TOTAL
70.3	3.0	5.2	2.3	2.3	2.3	2.6	3.9	1.8	3.2	.2	81.2

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TABLE 8  
PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF  
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NO PCP	.1	.0	.0	.4	.1	.0	.2	.5	.0	.1	1.4	1.4
TOT %	.1	.0	.0	.4	.1	.0	.2	.5	.0	.1	1.4	1.4
PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NO PCP	.1	.1	.1	.2	.4	.1	.4	1.0	.0	.1	2.5	2.5
TOT %	.1	.1	.1	.2	.4	.1	.4	1.0	.0	.1	2.6	2.6
PCP	.1	.1	.1	.0	.1	.0	.0	.1	.0	.0	.5	.5
NO PCP	2.4	.4	1.7	2.2	.5	.7	3.1	5.8	.0	1.3	18.0	18.0
TOT %	2.5	.4	1.8	2.2	.6	.7	3.1	5.9	.0	1.3	18.5	18.5
PCP	.0	.0	.2	.1	.0	.0	.0	.0	.0	.0	.2	.2
NO PCP	5.7	2.2	4.2	8.3	3.2	2.2	16.0	27.4	.0	8.1	77.1	77.1
TOT %	5.7	2.2	4.4	8.3	3.2	2.2	16.0	27.4	.0	8.1	77.4	77.4
TOT OBS	8.4	2.7	6.3	11.0	4.4	3.0	19.7	34.9	.0	9.7	100.0	839



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TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED  
WITH VARYING VALUES OF VISIBILITY

VSRY (M)	SPO KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT TOTAL OBS
1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1
	4-10	.1	.0	.0	.1	.0	.0	.1	.2	.0	.0	.4
	11-21	.0	.0	.0	.1	.0	.0	.1	.1	.0	.0	.3
	22+	.0	.0	.0	.1	.1	.0	.1	.1	.0	.0	.4
	TOT %	.1	.0	.0	.3	.1	.0	.2	.5	.0	.1	1.3
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1
	4-10	.0	.1	.1	.1	.2	.1	.4	.2	.0	.0	1.5
	11-21	.1	.0	.0	.0	.2	.0	.0	.2	.0	.0	.5
	22+	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.3
	TOT %	.1	.1	.1	.2	.4	.1	.4	.9	.0	.1	2.4
5<10	0-3	.2	.3	.2	.1	.1	.1	.3	.3	.0	1.1	2.8
	4-10	.9	.1	.7	1.0	.4	.3	.8	2.1	.0	.0	6.3
	11-21	.9	.0	.7	.4	.1	.2	1.5	2.8	.0	.0	6.6
	22+	.2	.0	.1	.0	.0	.0	.2	.4	.0	.0	1.1
	TOT %	2.2	.5	1.6	1.5	.5	.6	2.8	5.6	.0	1.1	16.8
10+	0-3	1.1	1.0	.7	1.0	.8	.5	2.0	2.4	.0	8.0	17.4
	4-10	2.9	.9	3.1	6.1	2.1	1.4	8.5	13.2	.0	.0	38.1
	11-21	1.1	.4	.7	1.4	.3	.0	5.0	12.1	.0	.0	21.5
	22+	.4	.0	.0	.0	.0	.0	.4	1.4	.0	.0	2.3
	TOT %	5.4	2.4	4.4	8.5	3.2	2.3	16.0	29.0	.0	8.0	79.3
TOT OBS		7.8	2.9	6.1	10.9	4.2	3.0	19.4	36.2	.0	9.4	150.0
TOT PCT												958

APRIL

PERIOD (PRIMARY) 1947-1971  
(OVER-ALL) 1864-1971

AREA 0023 N. E. PERSIAN GULF  
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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH > 4/8) AND OCCURRENCE OF NH < 5/8 BY HOUR

HOUR (GMT)	000 1A9	150 209	300 599	450 999	600 999	750 1999	900 3499	1050 3999	1200 4999	1350 6499	1500 7999	1650 8999	1800 9999	TOTAL	NH <5/8 ANY HGT	TOTAL DBS
00003	.0	.0	.0	1.1	4.3	1.1	2.2	.5	.0	.5	.0	.5	9.7	90.3	186	
06009	.0	.0	.0	.5	3.4	2.9	.0	.5	1.0	1.0	1.0	1.0	11.2	88.8	205	
12015	.5	.0	.0	.9	1.4	1.9	.9	.5	.0	1.9	.5	1.9	7.9	92.1	214	
18021	1.0	.0	.0	.0	2.6	2.1	1.0	1.0	1.0	2.1	1.0	1.0	12.4	87.6	193	
TOT	.3	.0	.0	.5	2.7	.7	1.0	.5	.4	1.1	.82	7.6	798			
PCT	.4	.0	.0	.6	3.4	.1	1.3	.6	.5	1.4	.5	1.4	10.3	89.7	100.0	

TABLE 11

PERCENT FREQUENCY VS8Y (NH) BY HOUR

HOUR (GMT)	< 1/2	1/2-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12	TOTAL
00003	.0	.0	.0	1.1	12.2	86.7	181							181
06009	.5	.0	.0	1.5	18.0	80.0	200							200
12015	.0	.0	1.0	3.9	.6	81.6	206							206
18021	.0	.0	1.0	1.6	14.1	83.2	191							191
TOT	.1	.0	.4	16	113	644	778							778
PCT	.1	.0	.5	2.1	14.5	82.8	100.0							100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VS8Y (NH) AND/OR CEILING HGT (FEET, NH > 4/8) BY HOUR

HOUR (GMT)	< 150	< 600	< 1000	1000+ AND 5+	NH < 5/8 TOTAL
00003	.0	.0	2.2	8.3	89.5
06009	.5	.5	2.5	10.5	87.0
12015	.5	.5	6.3	5.3	88.3
18021	1.0	1.0	3.7	10.5	85.9
TOT	.4	.4	2.9	6.7	88.2
PCT	.5	.5	3.7	8.6	87.7

APRIL

PERIOD: (PRIMARY) 1947-1971  
(OVER-ALL) 1864-1971

AREA 0023 N. E. PERSIAN GULF  
27.1N 51.9E

TABLE 13

TEMP F	PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP										TOTAL OBS	PCT FREQ
	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100				
95/99	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	1	.1
90/94	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7	1.0
85/89	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	23	3.2
80/84	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	114	15.7
75/79	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	309	42.7
70/74	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	235	32.5
65/69	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	35	4.8
TOTAL	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	724	100.0
PCT	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP											
N	NE	E	SE	S	SW	W	NW	VAR	CALM		
.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
.0	.0	.1	.0	.0	.0	.0	.1	.0	.0	.0	.1
.3	.1	.5	.4	.1	.1	.5	.3	.0	.0	.0	.8
.6	.5	.9	2.3	.9	.7	3.8	4.0	.0	.0	.0	2.1
3.6	1.2	3.4	5.7	1.3	1.6	8.6	13.6	.0	.0	.0	3.6
2.6	.9	1.1	2.9	1.0	.6	6.4	13.4	.0	.0	.0	2.6
.5	.0	.1	.0	.2	.0	.7	3.1	.0	.0	.0	.1
.5	.1	.4	.8	.2	.0	.7	3.1	.0	.0	.0	.6
7.8	2.7	6.3	11.4	3.6	2.9	20.5	35.4	.0	.0	.0	9.4

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMPERATURE BY HOUR											
HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS		
0000Z	82	81	79	74	69	66	66	74.1	259		
0600Z	93	88	85	77	71	68	65	77.3	279		
1200Z	95	92	87	78	70	69	65	78.3	266		
1800Z	85	83	81	74	69	67	66	74.3	264		
TOT	95	88	84	76	70	67	65	76.0	1068		

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR											
HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS	
0000Z	.0	3.2	15.5	28.9	33.2	19.3	79	187			
0600Z	.0	9.7	22.4	39.8	22.4	5.6	74	196			
1200Z	.0	11.2	32.2	36.1	15.6	4.9	71	205			
1800Z	.0	3.5	12.2	39.2	32.0	12.7	78	181			
TOT	0	55	161	277	195	80	75	769			

AREA 0023 N. E. PERSIAN GULF  
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TABLE 17

TABLE 17

PCY FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)  
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIK=SEA	65	69	73	77	81	85	89	93	W	FOG
TNP DIF	65	72	76	80	84	88	92	96		
14/16	0	0	0	0	0	3	1	1	0	5
11/13	0	0	1	3	9	5	5	0	0	1.9
9/10	0	0	0	0	0	4	1	0	0	1.9
7/8	0	0	0	1.7	2.9	7	0	0	0	6.0
6	0	0	0	1.3	2.4	1	0	0	0	4.5
5	0	0	0	3.2	1.1	3	0	0	0	5.3
4	0	0	0	6.0	1.6	3	0	0	0	9.7
3	0	0	0	1.1	1.1	0	0	0	0	8.4
2	0	0	0	4.4	0	0	0	0	0	11.7
1	0	0	0	6.3	4.1	0	0	0	0	13.3
0	1	1.3	9.2	2.5	4	0	0	0	0	12.7
-1	0	3.9	6.9	2.0	1	0	0	0	0	12.2
-2	0	2.4	4.0	1.3	0	0	0	0	0	8.2
-3	0	1.6	2.4	0.9	0	0	0	0	0	5.7
-4	0	1.5	1.3	0.5	1	0	0	0	0	3.6
-5	0	1.2	0.8	0	0	0	0	0	0	2.7
-6	0	0.8	0.3	0	0	0	0	0	0	1.1
-7	0	0.9	0	0	0	0	0	0	0	1.1
-8	0	0.4	0	0	0	0	0	0	0	0.9
-9/10	0	0	1	0	0	0	0	0	0	0.3
TOTAL	22	13	302	205	67	19	16	1	3	748
PCT	2.9	1.5	40.1	27.0	11.6	2.5	2.8	0.1	0.7	99.3

APRIL  
TABLE 18  
AREA 0023 N. E. PERSIAN GULF  
27.1N 51.9E

PERIOD: (PRIMARY)  
(OVER-ALL) 1963-1971

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N					NE					PCT		
	1-3	4-10	11-21	22-33	34-47	48+	1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	1.3	.0	.0	.0	.0	1.3	.2	.0	.0	.0	.0	1.5
1-2	.0	4.0	.6	.0	.0	.0	.0	.6	.0	.0	.0	.0	.6
3-4	.0	.0	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-85	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	5.3	2.3	.5	.0	.0	1.3	.8	.0	.0	.0	.0	2.1

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.3	1.0	.0	.0	.0	.0	2.3	.0	4.8	.6	.0	.0	.0	5.5
1-2	.0	3.4	.0	.0	.0	.0	3.4	.0	4.4	.0	.0	.0	.0	4.4
3-4	.0	.0	1.6	.0	.0	.0	1.6	.0	1.0	.2	.0	.0	.0	1.1
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.0	.0	.6
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-85	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.3	4.4	1.6	.0	.0	.0	7.4	.0	10.2	.8	.6	.0	.0	11.6

APRIL  
TABLE 1A

AREA 0023 N. E. PERSIAN GULF  
27.1N 51.9E

PERIOD: (PRIMARY) 1963-1971  
(OVER-ALL)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	1.0	.0	.0	.0	.0	.0	.0	1.0
1-2	.0	.0	.0	.0	.0	.0	3.9	.0	.0	.0	.0	.0	.0	2.6
3-6	.0	.0	.0	.0	.0	.0	2.3	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-50	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	4.7	1.9	.0	.0	.0	7.1	.0	3.9	.0	.0	.0	.0	4.7

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	2.9	.0	.0	.0	.0	.0	.0	5.5
1-2	.0	.0	.0	.0	.0	.0	7.4	.0	.0	.0	.0	.0	.0	11.0
3-6	.0	.0	.0	.0	.0	.0	4.2	.0	.0	.0	.0	.0	.0	13.4
5-6	.0	.0	.0	.0	.0	.0	3.1	.0	.0	.0	.0	.0	.0	5.5
7	.0	.0	.0	.0	.0	.0	1.5	.0	.0	.0	.0	.0	.0	1.8
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	9.8	6.6	2.1	.0	.0	15.5	.0	19.0	15.0	3.9	.0	.0	39.5

PERIOD (PRIMARY)  
(OVER-ALL) 1963-1971

APRIL

AREA: 0023 N. E. PERSIAN GULF  
27.1N 51.9E

TABLE 18 (CONT)

HGT	WIND SPEED (KTS) VS SEA HEIGHT (FT)										PCT	TOT OBS
	0-3	4-10	11-21	22-33	34-47	48+	48+	48+	48+	48+		
<1	4.3	14.9	.6	.0	.0	.0	.0	.0	.0	.0	27.7	
1-2	1.7	28.0	5.1	.0	.0	.0	.0	.0	.0	.0	24.9	
3-4	.0	9.7	11.4	.0	.0	.0	.0	.0	.0	.0	21.4	
5-6	.0	.0	6.9	.0	.0	.0	.0	.0	.0	.0	9.1	
7	.0	.0	1.1	1.7	.0	.0	.0	.0	.0	.0	2.9	
8-9	.0	.0	.0	1.7	.0	.0	.0	.0	.0	.0	1.7	
10-11	.0	.0	.0	.6	.0	.0	.0	.0	.0	.0	.6	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-45	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
46-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	175
TOT PCT	16.0	52.6	25.1	6.3	.0	.0	.0	.0	.0	.0	100.0	

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+ TOTAL	MEAN HGT
<6	9.6	24.1	17.2	3.2	1.0	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	345
6-7	.3	1.3	3.1	3.1	1.4	1.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	66
8-9	.0	.5	.3	1.3	.8	.3	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	21
10-11	.0	.0	.0	.0	.0	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2
12-13	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
INDET	19.5	6.9	1.9	.5	.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	167
TOTAL	183	204	140	50	21	11	6	1	0	0	0	0	0	0	0	0	0	0	0	622
PCT	29.4	32.8	22.5	8.0	4.3	1.8	1.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0

PERIOD: (PRIMARY) 1941-1971 MAY  
 (OVER-ALL) 1914-1971

AREA 0023 N. E. PERSIAN GULF  
 27.1N 51.8E

TABLE 1  
 PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	RAIN	RAIN SHWR	ORZL	PRECIPITATION TYPE				HAIL	PCT FREQ PCPN AT DB TIME	TOTAL PCPN DBS	THOR				OTHER WEATHER PHENOMENA						TOTAL DBS
				ORZL	FRZG	SNOW	OTHER								PCPN	FG	SMOKE	DUST	NO	SIG	
N	.1	.0	.0	.0	.0	.0	.0	.0	.0	0	.1	.4	.5	.0	.0	.0	.0	.0	.0	.0	77
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	23
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0	23
SE	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.1	1.1	.0	.0	.0	.0	.0	.0	.0	48
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.1	.3	.0	.0	.0	.0	.0	.0	.0	23
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0	34
W	.1	.0	.0	.0	.0	.0	.0	.0	.0	0	.1	.5	2.1	.0	.0	.0	.0	.0	.0	.0	207
NW	.1	.0	.0	.0	.0	.0	.0	.0	.0	1	.1	1.7	2.9	.0	.0	.0	.0	.0	.0	.0	318
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.1	1.4	.0	.0	.0	.0	.0	.0	.0	78
TOT OBS	2	.0	.0	.0	.0	.0	.0	.0	.0	2	.8	27	85	.2	.0	.0	.0	.0	.0	.0	846
TOT PCY	.2	.0	.0	.0	.0	.0	.0	.0	.0	.2	.9	3.2	10.0	.9	.0	.0	.0	.0	.0	.0	100.0

TABLE 2  
 PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	RAIN	RAIN SHWR	ORZL	PRECIPITATION TYPE				HAIL	PCT FREQ PCPN AT DB TIME	TOTAL PCPN DBS	THOR LTNG	OTHER WEATHER PHENOMENA						TOTAL DBS
				ORZL	FRZG	SNOW	OTHER FRZN PCPN					PCPN	PCPN	WD	PCPN	HAZE	BLWG	
00003	1.0	.0	.0	.0	.0	.0	.0	.0	1.0	2	3.1	1.0	7.1	5.1	5.1	53.7	196	
06009	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	3.3	10.5	4.0	4.0	77.0	248	
12015	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	1.7	12.6	4.8	4.8	81.0	231	
18021	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.9	1.3	8.3	7.4	7.4	82.1	229	
TOT	2	.0	.0	.0	.0	.0	.0	.0	.0	2	.8	3.0	88	48	48	730	904	
PCT	.2	.0	.0	.0	.0	.0	.0	.0	.0	.2	.9	3.3	9.7	5.3	5.3	80.8	100.0	



PERIOD: (PRIMARY) 1941-1971  
(OVER-ALL) 1916-1971

MAY

APEA 0023 N. E. PERSIAN GULF  
27.1N 51.8E

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)										HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+	TOTAL DBS	PCT FREQ	MEAN SPO	00	03	06	09	12	15	18	21	
N	1.3	4.9	2.5	.2	.0	.0	93	8.9	8.9	9.6	11.5	10.3	4.8	8.0	7.4	9.2	10.0	
NE	.9	1.4	.4	.0	.0	.0	28	2.7	6.5	2.9	3.8	4.6	2.1	1.6	1.5	1.6	4.4	
E	1.2	3.1	.1	.0	.0	.0	46	4.5	4.4	3.3	11.5	8.3	1.4	3.5	8.9	2.8	2.2	
SE	2.2	3.3	.1	.0	.0	.0	57	5.5	4.9	3.6	17.7	6.1	4.1	7.6	2.9	6.3	.0	
S	1.1	1.4	.1	.0	.0	.0	26	2.5	5.0	2.3	.0	3.4	1.4	3.6	1.5	1.6	1.1	
SW	.8	3.1	.5	.0	.0	.0	45	4.3	7.0	2.8	1.9	4.0	3.1	4.8	7.4	4.8	5.0	
W	3.3	14.4	6.9	.5	.0	.0	261	25.0	9.0	24.3	21.2	22.8	32.2	29.1	27.2	21.9	20.6	
NW	2.9	17.4	15.3	2.2	.0	.0	393	37.7	11.0	35.2	26.9	35.6	43.5	35.6	43.4	40.9	43.3	
VAR	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	8.8	51.0	27.0	3.0	.0	.0	92	8.8	.0	16.0	15.4	4.7	5.3	6.3	.0	10.9	13.3	
TOT DBS	233	48.9	55.9	2.9	.0	.0	1043	8.3	8.3	188	13	232	73	230	34	220	42	
TOT PCT	22.3						100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					41+ DBS	TOTAL DBS	PCT FREQ	MEAN SPO	CO 03	HOUR (GMT)					
	0-6	7-16	17-27	28-40	06						09	12	15	18	21	
N	3.9	3.9	1.2	.0	.0	93	8.9	8.9	9.7	9.7	9.0	7.9	7.9	9.3	9.3	9.3
NE	1.5	1.0	.1	.0	.0	28	2.7	6.5	3.0	3.0	4.0	1.6	1.6	2.1	2.1	2.1
E	3.8	1.6	.0	.0	.0	46	4.5	4.8	3.9	3.9	6.6	4.1	4.1	2.7	2.7	2.7
SE	4.3	1.2	.0	.0	.0	57	5.5	4.9	3.9	3.9	5.7	7.0	7.0	5.2	5.2	5.2
S	1.8	.6	.1	.0	.0	26	2.5	5.0	2.1	2.1	3.0	3.3	3.3	1.5	1.5	1.5
SW	2.3	1.9	.2	.0	.0	45	4.3	7.0	2.7	2.7	4.3	5.1	5.1	4.8	4.8	4.8
W	10.0	12.4	3.5	.1	.0	261	25.0	9.0	24.1	24.1	25.1	28.9	28.9	21.7	21.7	21.7
NW	10.0	20.2	7.4	.1	.0	393	37.7	11.0	34.7	34.7	37.5	36.6	36.6	41.3	41.3	41.3
VAR	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	8.8	435	122	2	0	92	8.8	.0	15.9	15.9	4.9	5.5	5.5	11.3	11.3	11.3
TOT DBS	484	41.7	11.7	.2	.0	1043	8.3	8.3	201	201	303	272	272	265	265	265
TOT PCT	46.4				.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

AREA 0023 N. E. PERSIAN GULF  
27.1N 51.8E

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PERIOD (PRIMARY) 1941-1971  
(OVER-ALL) 1914-1971

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
0000	15.9	10.9	44.3	25.9	3.0	.0	.0	7.8	100.0	201
0600	4.9	15.1	52.5	24.6	3.0	.0	.0	8.4	100.0	305
1200	5.5	13.2	51.8	26.8	2.6	.0	.0	8.5	100.0	272
1800	11.3	14.0	45.5	26.4	3.0	.0	.0	8.2	100.0	265
TOT	92	141	510	270	30	0	0	8.3		1043
PCT	8.8	13.5	48.9	25.9	2.9	.0	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)  
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8-10	11-20	21-30	31-40	41-50	51-60	61-70	71-80	81-90	91-100	TOTAL OBS
N	6.7	1.0	1.2	.2	.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	65
NE	2.1	.2	.1	.0	.5	.5	.5	.5	.5	.5	.5	.5	.5	17
E	3.5	.1	.3	.0	.9	.9	.9	.9	.9	.9	.9	.9	.9	28
SE	4.4	.3	.7	.1	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	39
S	1.5	.4	.6	.3	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	20
SW	3.1	.2	.5	.2	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	26
W	20.2	1.7	1.5	.5	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	168
NW	34.6	1.7	1.8	.8	.8	.8	.8	.8	.8	.8	.8	.8	.8	276
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
CALM	8.1	.8	.6	.0	.7	.7	.7	.7	.7	.7	.7	.7	.7	68
TOT OBS	600	46	52	14	68	68	68	68	68	68	68	68	68	712
TOT PCT	84.3	6.5	7.3	2.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH > 4/8)  
AND OCCURRENCE OF NH < 5/8 BY WIND DIRECTION

WIND DIR	000	149	150	299	300	399	499	500	599	699	799	899	999	TOTAL OBS
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	65
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	17
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	28
SE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	39
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	20
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	28
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	168
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	276
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	68
TOT OBS	600	46	52	14	68	68	68	68	68	68	68	68	68	712
TOT PCT	84.3	6.5	7.3	2.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

PERIOD: (PRIMARY) 1941-1971  
(OVER-ALL) 1914-1971

MAY

AREA 0023 N.E. PERSIAN GULF  
27.1N 51.8E

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE  
OF CEILING HEIGHT (NH > 4/8) AND VSBY (NM)

CEILING (FEET)	OR >10	OR >5	OR >2	VSBY (NM) OR >1	OR >1/2	OR >1/4	OR >50YD	OR >0
OR >6500	.8	1.0	1.0	1.0	1.0	1.0	1.0	1.0
OR >5000	1.0	1.3	1.3	1.3	1.3	1.3	1.3	1.3
OR >3500	1.3	1.8	1.8	1.8	1.8	1.8	1.8	1.8
OR >2000	1.4	2.1	2.1	2.1	2.1	2.1	2.1	2.1
OR >1000	2.1	3.1	3.8	3.8	3.8	3.8	3.8	3.8
OR >800	2.1	3.3	3.9	3.9	3.9	3.9	3.9	3.9
OR >300	2.1	3.3	3.9	3.9	3.9	3.9	3.9	3.9
OR >150	2.2	3.4	4.2	4.2	4.2	4.2	4.2	4.2
OR 0	2.2	3.4	4.2	4.2	4.2	4.2	4.2	4.2
TOTAL	17	26	32	32	32	32	32	32

TOTAL NUMBER OF OBS 767 PCT FREQ NH < 5/8 95.8

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
	76.7	11.5	4.1	1.7	1.4	.6	1.0	1.9	1.0	.1	832

AREA 0023 N. E. PERSIAN GULF  
27.1N 51.8E

MAY

PERIOD: (PRIMARY) 1941-1971  
(OVER-ALL) 1913-1971

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF  
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

WIND DIRECTION	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NO PCP	.0	.0	.0	.0	.0	.1	.2	.0	.0	.2	.2
TOT %	.0	.0	.0	.0	.0	.1	.2	.0	.0	.2	.2
PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NO PCP	.0	.1	.0	.0	.0	.0	.1	.0	.0	.2	.2
TOT %	.0	.1	.0	.0	.0	.0	.1	.0	.0	.2	.2
PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NO PCP	.2	.1	.2	.1	.1	.3	.6	.0	.0	1.7	1.7
TOT %	.2	.1	.2	.1	.1	.3	.6	.0	.0	1.7	1.7
PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NO PCP	.1	.2	.2	.0	.4	1.0	2.0	.0	.6	4.6	4.6
TOT %	.1	.2	.2	.0	.4	1.0	2.0	.0	.6	4.6	4.6
PCP	.0	.0	.0	.0	.0	.1	.1	.0	.0	.1	.1
NO PCP	.2	.9	1.1	.8	1.2	5.3	8.7	.0	1.5	23.5	23.5
TOT %	.2	.9	1.1	.8	1.2	5.4	8.7	.0	1.5	23.6	23.6
PCP	.1	.0	.0	.0	.0	.0	.1	.0	.0	.1	.1
NO PCP	6.6	1.7	2.7	3.4	2.5	17.7	26.0	.0	7.1	69.5	69.5
TOT %	6.6	1.7	2.7	3.4	2.5	17.7	26.0	.0	7.1	69.6	69.6
TOT OBS	9.1	2.8	4.2	5.7	2.8	4.0	24.5	37.7	.0	9.2	100.0
TOT PCT	9.1	2.8	4.2	5.7	2.8	4.0	24.5	37.7	.0	9.2	100.0

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PERIOD: (PRIMARY) 1961-1971  
(OVER-ALL) 1914-1971

MAY

AREA 0023 N. E. PERSIAN GULF  
27.1N 51.8E

TABLE 1  
PERCENT FREQ OF WIND DIRECTION VS WIND SPEED  
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SBD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT TOTAL DBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5<10	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10+	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT DBS		9.0	2.7	4.5	5.4	2.6	4.3	25.2	37.7	.0	8.6	100.0
TOT PCT												1028

PERIOD: (PRIMARY) 1941-1971  
(OVER-ALL) 1914-1971

MAY

AREA 0023 N. E. PERSIAN GULF  
27.1N 51.8E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH > 4/8) AND  
OCCURRENCE OF NH < 5/8 BY HOUR

HOUR (GMT)	000	150	300	450	600	750	900	1050	1200	1350	1500	1650	1800	1950	2100	2250	2400	TOTAL	NH < 5/8 ANY HGT	TOTAL OBS
00003	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	189
06009	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	227
12015	.4	.4	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	224
18021	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	207
TOT	1	2	0	0	1	13	2	4	2	5	3	33	794	827						
PCT	.1	.2	.0	.0	.1	1.6	.2	.5	.2	.6	.4	4.0	96.0	100.0						

TABLE 11

PERCENT FREQUENCY VS8Y (NM) BY HOUR

HOUR (GMT)	< 1/2	1/2 < 1	1 < 2	2 < 3	3 < 4	4 < 5	5 < 6	6 < 7	7 < 8	8 < 9	9 < 10	10 < 11	11 < 12	TOTAL OBS
00003	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	160
06009	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	201
12015	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	209
18021	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	197
TOT	2	3	0	30	158	574	767							
PCT	.3	.4	.0	3.9	20.6	74.8	100.0							

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VS8Y (NM) AND/OR  
CEILING HGT (FEET, NH > 4/8) BY HOUR

HOUR (GMT)	< 150	< 300	< 450	< 600	< 750	< 900	< 1050	< 1200	< 1350	< 1500	< 1650	< 1800	< 1950	< 2100	< 2250	< 2400	TOTAL OBS
00003	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	160
06009	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	201
12015	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	209
18021	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	197
TOT	0	7	37	24	706	767											
PCT	.0	.9	4.8	3.1	92.0	100.0											

MAY

 PERIOD: (PRIMARY) 1941-1971  
 (OVER-ALL) 1914-1971

 AREA 0023 N. E. PERSIAN GULF  
 27.1N 51.8E

TABLE 13

TEMP F	PERCENT FREQUENCY OF RELATIVE HUMIDITY (DEG F) BY TEMP										TOTAL OBS	PCT FREQ
	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100				
93/99	.0	.0	.2	.0	.3	.3	.0	.0			7	.8
90/94	.0	.0	.3	1.4	2.5	1.5	.3	.0			39	6.0
85/89	.0	.0	.2	2.1	6.0	10.3	5.2	2.3			183	28.0
80/84	.0	.0	.2	2.6	9.6	14.2	11.8	5.8			289	44.3
75/79	.0	.0	.0	.3	2.0	6.7	4.6	5.7			126	19.3
70/74	.0	.0	.0	.0	.6	.5	.2	.5			11	1.7
TOTAL	.0	.0	.5	.42	15.0	21.9	14.4	9.3			653	100.0
PCT	.0	.0	.8	6.4	23.0	33.5	22.1	14.2				

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP									
N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.0	.0	.2	.1	.5	.0	.0
.3	.3	.7	.7	.2	.2	1.5	1.3	.0	.9
2.2	1.0	2.0	2.1	.4	1.9	8.3	8.4	.0	1.8
4.0	1.2	2.1	2.0	1.5	1.7	10.8	16.0	.0	3.1
2.6	.5	.3	.8	.7	.6	3.3	8.8	.0	1.7
.2	.0	.2	.0	.0	.0	1.3	1.0	.0	.0
.61	.19	.34	.36	.18	.29	1.58	2.34	.0	.62
9.3	2.9	5.2	5.6	2.8	4.6	24.2	35.9	.0	9.5

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR									
HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	90	88	87	80	75	73	71	80.7	212
06009	95	94	91	84	77	72	70	83.8	321
12015	96	95	92	85	79	75	70	83.1	283
18021	93	90	87	82	76	73	70	81.4	276
TOT	96	94	90	83	76	73	70	82.4	1092

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR								
HOUR (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.1	23.1	28.6	22.4	21.8	78	147
06009	.0	6.4	18.6	38.3	26.1	10.6	76	188
12015	.0	14.0	31.2	36.6	11.8	6.5	71	186
18021	.0	3.9	18.8	26.5	32.0	18.8	79	181
TOT	0	51	131	230	162	98	76	702

PERIOD: (PRIMARY) 1941-1971  
(OVER-ALL) 1914-1971

MAY

AREA 0023 N. E. PERSIAN GULF  
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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)  
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	69	73	77	81	85	89	93	TOT	M	WD
	72	76	80	84	88	92	96		FOG	FOG
14/16	.0	.0	.0	.0	.3	.3	.5	8	.0	1.0
11/13	.0	.0	.0	.0	.3	1.0	.5	14	.1	1.7
9/10	.0	.0	.0	.3	1.3	1.8	.5	30	.1	3.8
7/8	.0	.0	.4	1.2	3.1	1.6	.1	49	.7	5.8
6	.0	.0	.4	2.0	2.0	.5	.1	38	.4	4.6
5	.0	.0	.9	1.6	4.2	1.0	.0	59	.5	7.2
4	.0	.1	1.8	5.0	4.2	.5	.0	79	.4	11.3
3	.0	.3	2.8	4.6	2.1	.1	.1	73	.3	9.7
2	.0	.3	2.9	6.7	4.1	.1	.0	107	.7	13.4
1	.1	.3	3.1	6.0	1.4	.4	.0	87	.1	11.3
0	.1	1.0	4.1	3.8	1.4	.0	.0	80	.3	10.2
-1	.1	.8	2.6	2.4	.5	.0	.0	50	.0	6.6
-2	.0	.9	2.0	1.7	.1	.0	.0	36	.3	4.5
-3	.5	.3	1.0	.5	.0	.0	.0	18	.0	2.4
-4	.0	.1	1.0	.3	.0	.0	.0	11	.0	1.4
-5	.0	.1	.3	.1	.0	.0	.0	4	.0	.5
-6	.0	.1	.1	.0	.1	.0	.0	3	.0	.4
-9/-10	.0	.0	.3	.0	.0	.0	.0	2	.0	.3
-11/-13	.0	.0	.1	.0	.0	.0	.0	1	.0	.1
TOTAL	7	33	183	275	192	57	15	762	29	733
PCT	.9	4.3	24.0	36.1	25.2	7.5	2.0	100.0	3.8	96.2



PERIOD: (PRIMARY)  
(OVER-ALL) 1963-1971

RAY

AREA: 0023 N. E. PERSIAN GULF  
27.1N 51.8E

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.0	1.0	.0	.0	.0	.0	2.1	.0	.0	.0	.0	.0	.0	.0
1-2	.5	2.8	.5	.0	.0	.0	3.8	.9	.0	.0	.0	.0	.0	.9
3-4	.0	1.2	.7	.0	.0	.0	1.9	.0	.0	.7	.0	.0	.0	.7
5-6	.0	.0	.0	.0	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.7	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-15	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-28	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
30-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.6	5.0	1.7	.7	.0	.0	9.0	.9	.9	.7	.0	.0	.0	2.4

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.7	.7	.0	.0	.0	.0	1.4	.7	2.1	.0	.0	.0	.0	4.8
1-2	.0	.0	.7	.0	.0	.0	.7	.0	2.1	.0	.0	.0	.0	2.8
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.7	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.7	.7	.7	.0	.0	.0	2.1	3.4	4.8	.0	.0	.0	.0	8.3

WAY

TABLE 18

PERIOD (PRIMARY:  
(OVER-ALL) 1963-1971

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.5	.0	.0	.0	.0	.5	.0	1.7	.0	.0	.0	.0	1.7
1-2	.7	.0	.0	.0	.0	.0	.7	.0	.0	.2	.0	.0	.0	.3
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.5	.0	.0	.0	.0	.9
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.7	.5	.0	.0	.0	.0	1.2	.0	2.8	.2	.0	.0	.0	2.9

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	2.2	.0	.0	.0	.0	2.6	1.7	3.3	.0	.0	.0	.0	5.0
1-2	.0	4.1	1.0	.0	.0	.0	5.2	.7	4.7	3.8	.0	.0	.0	9.1
3-4	.0	1.6	7.6	.0	.0	.0	9.1	.7	3.3	10.3	.7	.0	.0	15.0
5-6	.0	.7	2.4	.0	.0	.0	3.1	.0	.7	19.3	1.4	.0	.0	11.6
7	.0	.0	1.6	.5	.0	.0	2.1	.0	.0	5.3	2.9	.0	.0	8.3
8-9	.0	.0	.5	.0	.0	.0	.5	.0	.0	.9	.7	.0	.0	1.6
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.4	8.6	13.1	.5	.0	.0	22.6	3.1	11.9	29.8	5.7	.0	.0	50.5

PERIOD (PRIMARY)  
(OVER-ALL) 1963-1971

MAY

AREA 0023 N. E. PERSIAN GULF  
27.1N 51.8E

TABLE 18 (CONT)

HGT	WIND SPEED (KTS) VS SEA HEIGHT (FT)						TOT OBS
	3-9	10-10	11-21	22-33	34-47	48+	
<1	20.2	10.7	.0	.0	.0	.0	31.0
1-2	3.0	11.9	5.4	.0	.0	.0	20.2
3-4	.6	6.5	16.7	.5	.0	.0	24.4
5-6	.0	1.2	10.7	1.2	.0	.0	13.1
7	.0	.0	4.0	3.0	.0	.0	8.9
8-9	.0	.0	1.2	1.2	.0	.0	2.4
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	21.8	30.4	39.9	6.0	.0	.0	100.0

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+ TOTAL	MEAN HGT
<6	10.0	21.5	13.5	5.9	1.6	.2	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	253
6-7	.2	1.4	5.2	5.2	1.4	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	78
8-9	.0	.2	.0	1.1	1.2	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	16
10-11	.0	.0	.0	.4	.4	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9
12-13	.0	.0	.0	.0	.0	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2
15-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
INDEX	20.7	3.9	3.0	.9	1.1	.2	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	169
TOTAL	173	151	126	64	32	10	3	0	2	0	0	0	0	0	0	0	0	0	0	561
PCT	30.3	26.9	22.5	11.4	5.7	1.8	.5	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0

PERIOD: (PRIMARY) 1947-1970  
(OVER-ALL) 1910-1970

JUNE

AREA: 0023 N. E. PERSIAN GULF  
27.2N 51.8E

TABLE 1

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	RAIN SHWR	RAIN SHWR	ORZL	PRECIPITATION TYPE			HAIL	PCT FREQ DB TIME	TOTAL PCPN DBS	THOR LTNG	OTHER WEATHER PHENOMENA					TOTAL OBS
				PCPN	FRZG	SNOW					PCPN	FOG	SHR	DUST	NO	
N	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.3	1.4	.3	1.0	4.0	81
NE	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.3	.3	.3	1.6	17
E	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.1	.7	.1	.1	2.0	22
SE	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.1	.8	.1	.1	3.4	34
S	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.2	.4	.0	.0	2.7	18
SW	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	1.3	.1	.1	2.7	31
W	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.8	3.7	.0	2.1	16.2	193
NW	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	1.0	5.6	.0	3.2	28.7	300
VAR	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.3	2.2	.0	1.3	16.2	154
TOT OBS	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	22	127	.0	64	564	777
TOT PCT	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	2.8	16.3	.0	8.2	72.6	100.0

TABLE 2

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	RAIN SHWR	RAIN SHWR	DRZL	PRECIPITATION TYPE			HAIL	PCT FREQ DB TIME	TOTAL PCPN DBS	THOR LTNG	OTHER WEATHER PHENOMENA					TOTAL OBS
				PCPN	FRZG	SNOW					PCPN	FOG	SHR	DUST	NO	
0000	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	1.6	15.6	.0	9.9	72.9	192
0600	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	5.8	18.8	.0	7.7	67.6	207
1200	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	3.3	16.9	.0	9.4	71.4	213
1800	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	1.3	13.7	.0	5.4	79.5	205
TOT	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	2.3	13.3	.0	66	595	817
PCT	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	2.8	16.3	.0	8.1	72.8	100.0

JUNE

PERIOD (PRIMARY) 1947-1970  
(OVER-ALL) 1910-1970

AREA 0023 N. E. PERSIAN GULF  
27.2N 51.8E

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WNO DIR	WIND SPEED (KNOTS)										TOTAL OBS	PCT FREQ	MEAN SPO	HOUR (GMT)					18	21
	0-3	4-10	11-21	22-33	34-47	48+	00	03	06	09				12	15					
N	1.8	3.2	1.3	.3	.0	.0	60	6.6	7.8	6.9	.0	9.0	9.8	4.0	4.4	6.8	4.4			
NE	.8	1.6	.1	.0	.0	.0	23	2.5	5.6	3.1	11.4	2.9	4.3	.3	5.9	2.6	2.9			
E	1.0	1.4	.2	.0	.0	.0	24	2.6	5.1	.0	11.4	5.6	2.2	3.7	.0	.9	2.9			
SE	1.8	2.6	.1	.0	.0	.0	42	4.6	4.7	3.7	4.5	2.7	7.6	6.2	11.8	4.7	1.5			
S	1.0	1.3	.1	.0	.0	.0	22	2.4	5.1	1.7	.0	1.9	2.7	2.3	5.9	2.5	7.4			
SW	1.5	2.8	.2	.0	.0	.0	41	4.5	5.7	4.7	4.5	2.8	4.9	5.3	.0	4.2	10.3			
W	3.6	15.0	5.5	.3	.0	.0	225	24.4	8.2	26.9	25.0	22.1	21.7	27.8	17.6	21.4	26.5			
NW	2.5	20.8	13.0	3.0	.0	.0	362	39.3	10.8	34.2	15.9	40.9	42.4	43.4	42.6	39.4	35.2			
VAR	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
CALM	13.2	449	189	33	0	0	122	13.2	.0	18.8	27.3	12.2	4.2	7.0	11.8	17.4	8.2			
TOT OBS	232	48.6	20.5	3.6	.0	.0	923	7.6		202	11	197	47	213	17	201	34			
TOT PCT	27.3						100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0			

TABLE 3A

WNO DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPO	HOUR (GMT)							
	0-6	7-16	17-27	28-40	41+				00	03	06	09	12	15	18	21
N	3.9	1.8	.9	.0	.0	60	6.6	7.8	6.6	.0	9.2	4.0	4.0	6.5		
NE	1.8	.8	.0	.0	.0	23	2.5	5.6	3.5	3.5	3.2	.8	.8	2.7		
E	1.9	.6	.1	.0	.0	24	2.6	5.1	.6	4.9	3.4	3.4	1.2	1.2		
SE	3.5	1.1	.0	.0	.0	42	4.6	4.7	3.8	3.6	6.6	6.6	4.3	4.3		
S	2.0	.3	.1	.0	.0	22	2.4	5.1	1.6	2.1	2.6	3.2	3.2	3.2		
SW	2.8	1.5	.1	.0	.0	41	4.5	5.7	4.7	3.2	3.2	5.0	5.1	5.1		
W	11.7	10.2	2.4	.2	.0	225	24.4	8.2	26.8	22.0	27.0	22.1	22.1	22.1		
NW	11.0	21.3	6.4	.6	.0	362	39.3	10.8	33.2	41.2	43.3	38.8	38.8	38.8		
VAR	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0		
CALM	13.2	347	92	7	.0	122	13.2	.0	19.2	10.7	7.3	16.2	16.2	16.2		
TOT OBS	477	37.6	10.0	.9	.0	923	7.6		213	243	232	235	235	235		
TOT PCT	51.7				.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0		

PERIOD: (PRIMARY) 1947-1970  
(OVER-ALL) 1910-1970

JUNE

AREA 0023 N. E. PERSIAN GULF  
27.2N 51.8E

TABLE 4

HOUR	CALM	PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (CONT)					48+	MEAN	PCT	
		1-3	4-10	WIND SPEED (KNOTS)					FREQ	FREQ
				11-21	22-35	34-47				
0003	19.2	11.3	42.3	23.0	4.2	.0	.0	7.6	100.0	
0609	10.7	18.1	48.1	20.2	2.9	.6	.0	7.5	100.0	
1215	7.3	11.2	58.2	19.0	4.3	.0	.0	8.2	100.0	
1821	16.2	15.3	45.5	20.0	3.0	.0	.0	7.3	100.0	
TUT	123	130	449	169	33	.0	.0	7.6		
PCT	13.1	14.1	48.6	20.5	3.6	.0	.0		100.0	

TABLE 5

WIND DIR	PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)							TOTAL OBS	MEAN CLOUD COVER
	0-2	3-4	5-7	8-9	10-12	13-15	16-18		
N	6.4	.3	.0	.1	.45	.5	.5	45	.5
NE	2.4	.1	.0	.0	.17	.2	.2	17	.2
E	2.3	.3	.0	.0	.17	.4	.4	17	.4
SE	3.5	.1	.3	.0	.26	.8	.8	26	.8
S	2.0	.1	.3	.0	.16	1.0	1.0	16	1.0
SW	4.2	.2	.0	.0	.29	.2	.2	29	.2
W	24.0	.6	.3	.1	167	.3	.3	167	.3
NW	37.5	.7	.3	.4	260	.3	.3	260	.3
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	12.0	.6	.1	.4	.88	.5	.5	88	.5
TOT OBS	630	21	9	8	668	.4	.4	668	.4
TOT PCT	9.3	3.1	1.3	1.2	100.0				

TABLE 6

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION														PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT) NH 24/8 AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION														TOTAL OBS
WIND DIR	0-2	3-4	5-7	8-9	TOTAL OBS	MEAN CLOUD COVER	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+ ANY	<5/8 ANY HGT											
N	6.4	.3	.0	.1	45	.5	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.7	45										
NE	2.4	.1	.0	.0	17	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.6	17										
E	2.3	.3	.0	.0	17	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.6	17										
SE	2.5	.1	.3	.0	26	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.0	26										
S	2.0	.2	.3	.0	16	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.4	16										
SW	4.2	.2	.3	.0	29	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.4	29										
W	24.0	.6	.3	.1	167	.3	.1	.0	.0	.0	.0	.0	.1	.0	.0	.0	24.8	167										
NW	37.5	.7	.3	.4	260	.3	.3	.0	.0	.0	.1	.0	.0	.0	.0	.1	38.4	260										
VAR	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0										
CALM	12.0	.6	.1	.4	88	.5	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	13.0	88										
TOT OBS	633	21	9	8	668	.4	.7	.0	.0	.0	.1	.0	.0	.0	.0	.0	1.660	668										
TOT PCT	94.3	3.1	1.3	1.2	100.0	.4	.7	.0	.0	.0	.1	.0	.0	.0	.0	.1	98.8	100.0										

PERIOD: (PRIMARY) 1947-1970  
(OVER-ALL) 1910-1970

JUNE

AREA 0023 N. E. PERSIAN GULF  
27.2N 51.8E

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE  
OF CEILING HEIGHT (NH > 4/8) AND VSBY (NH)

CEILING (FEET)	OR		OR		OR		OR		OR		OR		OR	
	>10	>5	>5	>2	>2	>1	>1/2	>1/4	>50%	>0	>0	>0	>0	>0
OR > 5000	.0	.0	.0	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1
OR > 4000	.0	.0	.0	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1
OR > 3000	.0	.0	.0	.2	.3	.3	.3	.3	.3	.3	.3	.3	.3	.3
OR > 2000	.0	.0	.0	.3	.4	.4	.4	.4	.4	.4	.4	.4	.4	.4
OR > 1000	.0	.1	.1	.4	.4	.4	.4	.4	.4	.4	.4	.4	.4	.4
OR > 600	.0	.1	.1	.4	.4	.4	.4	.4	.4	.4	.4	.4	.4	.4
OR > 500	.0	.1	.1	.4	.4	.4	.4	.4	.4	.4	.4	.4	.4	.4
OR > 150	.0	.1	.1	.4	.4	.4	.4	.4	.4	.4	.4	.4	.4	.4
OR > 0	.0	.1	.1	.4	.4	.4	.4	.4	.4	.4	.4	.4	.4	.4
TOTAL	0	1	1	4	5	5	5	8	1.1	1.1	1.1	1.1	1.1	1.1

TOTAL NUMBER OF OBS: 711 PCT FREQ NH < 5/8: 98.9

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	DESCO	TOTAL
84.3	12.1	.6	1.0	.8	.3	.1	.1	.0	.7	718

PERIOD: (PRIMARY) 1947-1970  
(OVER-ALL) 1910-1970

JUNE

AREA 0023 N. E. PERSIAN GULF  
27.2N 51.8E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF  
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
NO PCP	.1	.0	.0	.0	.0	.0	.3	.3	.0	.0	.8	
TOT %	.1	.0	.0	.0	.0	.0	.3	.3	.0	.0	.8	
PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1 NO PCP	.0	.0	.0	.1	.1	.0	.3	.1	.0	.0	.5	
TOT %	.0	.0	.0	.1	.1	.0	.3	.1	.0	.0	.5	
PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2 NO PCP	.1	.1	.0	.0	.0	.0	.5	1.2	.0	.1	2.1	
TOT %	.1	.1	.0	.0	.0	.0	.5	1.2	.0	.1	2.1	
PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
2<3 NO PCP	.6	.2	.5	.3	.2	.2	2.1	2.6	.0	.9	7.6	
TOT %	.6	.2	.5	.3	.2	.2	2.1	2.6	.0	.9	7.6	
PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
5<10 NO PCP	1.6	.4	.9	.9	.6	1.7	6.1	11.2	.0	4.6	28.1	
TOT %	1.6	.4	.9	.9	.6	1.7	6.1	11.2	.0	4.6	28.1	
PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10+ NO PCP	4.2	1.5	1.5	3.2	1.4	2.2	15.6	23.2	.0	.0	61.0	
TOT %	4.2	1.5	1.5	3.2	1.4	2.2	15.6	23.2	.0	.0	61.0	
TOT OBS	6.7	2.2	2.9	4.4	2.3	4.1	24.9	38.6	.0	13.9	100.0	777
TOT PCT												



PERIOD: (PRIMARY) 1947-1970  
(OVER-ALL) 1910-1970

JUNE

AREA 0023 N. E. PERSIAN GULF  
27.2N 51.8E

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED  
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPO KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL C8S
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.1	.0	.0	.0	.0	.0	.1	.0	.0	.0	.3	.3
	11-21	.0	.0	.0	.0	.0	.0	.1	.3	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.1	.0	.0	.0	.0	.0	.3	.3	.0	.0	.7	.7
1/2-1	0-3	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1	.1
	4-10	.0	.0	.0	.1	.1	.0	.1	.1	.0	.0	.3	.3
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.1	.1	.0	.2	.1	.0	.0	.5	.5
1-2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.1
	4-10	.0	.1	.0	.0	.0	.0	.3	.5	.0	.0	.9	.9
	11-21	.1	.0	.0	.0	.0	.0	.1	.5	.0	.0	.7	.7
	22+	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1	.1
	TOT %	.1	.1	.0	.0	.0	.0	.5	1.3	.0	.1	1.8	1.8
2-5	0-3	.1	.1	.1	.2	.1	.1	.0	.3	.0	.0	.8	.8
	4-10	.5	.3	.3	.3	.2	.1	1.2	1.3	.0	.0	3.6	3.6
	11-21	.1	.0	.1	.0	.0	.0	.0	.1	.0	.0	2.0	2.0
	22+	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1	.1
	TOT %	.6	.2	.5	.4	.3	.5	1.8	2.6	.0	.0	7.4	7.4
5-10	0-3	.6	.0	.3	.5	.3	.7	.5	.4	.0	4.6	8.0	8.0
	4-10	.6	.3	.3	.6	.4	.9	3.9	5.9	.0	.0	13.0	13.0
	11-21	.2	.0	.1	.0	.0	.1	1.7	4.1	.0	.0	6.2	6.2
	22+	.1	.0	.0	.0	.0	.0	.1	.4	.0	.0	.6	.6
	TOT %	1.5	.4	.8	1.0	.8	1.7	6.2	10.7	.0	4.6	27.7	27.7
10+	0-3	1.2	.5	.6	1.3	.6	.7	3.2	1.9	.0	8.2	18.4	18.4
	4-10	2.0	1.2	.8	1.7	.6	1.8	8.6	13.5	.0	.0	30.3	30.3
	11-21	1.0	.1	.0	.1	.1	.1	2.9	6.6	.0	.0	10.8	10.8
	22+	.2	.0	.0	.0	.0	.0	.2	2.0	.0	.0	2.4	2.4
	TOT %	4.4	1.9	1.5	3.1	1.4	2.6	14.9	24.1	.0	8.2	61.9	61.9
	TOT C8S	6.7	2.5	2.7	4.6	2.4	4.6	23.8	38.9	.0	13.8	100.0	88.7

JUNE

PERIOD: (PRIMARY) 1947-1970  
(OVER-ALL) 1910-1970

AREA 0023 N. E. PERSIAN GULF  
27.2N 51.8E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET) NH >4/8) AND  
OCCURRENCE OF NH <5/6 SY HOUR

HOUR (GMT)	000 149	150 299	300 599	350 999	400 1999	450 3499	500 4999	550 6499	600 7999	8000 8999	TOTAL ANY HGT	NH <5/8 ANY HGT	TOTAL OBS
00003	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.1	98.9	176
06009	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.2	98.8	170
12015	.5	.0	.0	.0	.0	.0	.0	.0	.0	.5	1.1	98.9	187
18021	.5	.0	.0	.0	.5	.0	.0	.0	.0	.0	1.1	98.9	182
TOT	5	0	0	0	1	0	1	0	0	1	8	709	717
PCT	.7	.0	.0	.0	.1	.0	.1	.0	.0	.1	1.1	98.9	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NH) BY HOUR

HOUR (GMT)	<1/2	1/2-1	1-2	2-5	5-10	10+	TOTAL OBS
00003	.6	1.1	.6	7.9	24.2	63.7	178
06009	1.2	.6	3.0	8.9	21.2	63.1	168
12015	.8	.0	2.2	7.6	25.9	63.8	185
18021	.6	.6	.0	5.0	29.4	64.4	180
TOT	5	4	10	52	183	457	711
PCT	.7	.6	1.4	7.3	25.7	64.3	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NH) AN' 1/2-  
CEILING HGT (FEET) NH >4/8) BY HOUR

HOUR (GMT)	<150 <5000	<600 <1	<1000 <5	1000+ AN05+	NH <5/8 AND 5+	TOTAL OBS
00003	1.1	2.2	10.1	.0	89.9	178
06009	.6	1.8	13.7	.0	86.3	168
12015	.5	1.1	10.3	.0	89.7	185
18021	.6	1.1	6.1	.0	93.3	180
TOT	5	11	71	1	639	711
PCT	.7	1.5	10.0	.1	89.9	100.0

JUNE

PERIOD: (PRIMARY) 1947-1970  
(OVER-ALL) 1910-1970

AREA 0023 N. E. PERSIAN GULF  
27.2N 51.8E

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP											
TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL	PCT	
100/104	.0	.0	.2	.0	.2	.0	.0	.0	2	.4	
95/99	.0	.0	.4	.5	.5	.0	.0	.0	8	1.4	
90/94	.0	.4	.2	3.0	7.7	11.6	3.2	1.3	153	27.3	
85/89	.0	.0	.2	2.5	9.3	17.3	19.5	5.2	302	53.9	
80/84	.0	.0	.0	.0	1.6	2.3	7.0	5.5	92	16.4	
75/79	.0	.0	.0	.0	.0	.0	.2	.2	3	.5	
TOTAL	C	2	5	34	108	176	167	68	560	100.0	
PCT	.0	.4	.9	6.1	19.3	31.4	29.8	12.1			

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP											
	N	NE	E	SE	S	SW	W	NW	VAR	CALM	
100/104	.0	.0	.0	.0	.0	.0	.2	.2	.0	.0	
95/99	.2	.0	.0	.2	.0	.0	.7	.2	.0	.2	
90/94	1.6	.5	1.5	1.3	.8	.9	7.3	9.3	.0	3.8	
85/89	2.6	.8	1.1	2.0	.8	3.0	15.3	2.2	.0	7.1	
80/84	.6	1.3	.1	.6	.6	1.2	3.9	5.4	.0	2.7	
75/79	.1	.4	.0	.0	.0	.0	.2	.0	.0	.2	
TOTAL	5.0	2.6	2.8	4.3	2.2	5.1	27.5	36.5	.0	13.9	
PCT											

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR											
HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL	OBS	
0000Z	94	93	90	85	80	79	78	85.4	221	151	
0600Z	103	98	94	86	83	82	81	88.3	244	141	
1200Z	102	100	94	90	84	81	81	89.8	234	149	
1800Z	97	93	91	86	81	80	79	86.4	247	153	
TOT	103	93	93	87	82	80	78	87.4	946	594	

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR											
HOUR (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL	OBS		
0000Z	.0	6.0	14.6	25.2	30.2	23.8	79	151	151		
0600Z	.0	7.8	19.1	29.8	35.5	7.8	76	141	141		
1200Z	.0	8.7	24.6	48.3	16.8	1.3	72	149	149		
1800Z	.0	6.5	17.6	22.2	37.3	16.3	78	153	153		
TOT	0	43	113	186	178	74	76	594	594		

PERIOD: (PRIMARY) 1947-1970  
(OVER-ALL) 1910-1970

JUNE

AREA 0025 N 5.6 PERSIAN GULF  
27.2N 51.8E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)  
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	77	81	85	89	93	TOT	W	MO
	80	84	88	92	96		FUG	FUG
11/13	.0	.0	.0	.0	.9	12	.0	1.3
9/10	.0	.0	.1	2.1	1.9	23	.3	1.8
7/8	.0	.0	.9	3.8	1.5	44	.0	6.4
5	.0	.0	1.0	2.2	.9	29	.3	3.8
4	.0	.3	1.2	3.0	.9	36	.1	5.2
3	.0	.6	4.3	4.1	.0	61	.6	8.4
2	.0	.4	4.6	4.1	.9	68	.3	9.7
1	.1	1.8	7.7	3.5	.0	89	.6	12.6
0	.4	2.5	7.8	1.3	.0	77	.3	11.1
-1	.0	2.5	4.3	1.0	.0	82	.1	12.0
-2	.3	2.1	3.7	.7	.0	53	.1	7.7
-3	.0	1.0	2.1	.1	.0	46	.1	6.6
-4	.1	1.0	.4	.0	.0	22	.1	3.1
-5	.3	.7	.0	.1	.0	11	.0	1.6
-6	.1	.6	.3	.0	.0	8	.0	1.2
-7/-8	.1	.4	.0	.0	.0	7	.0	1.0
-11/-13	.0	.1	.0	.0	.0	4	.0	.6
TOTAL	12	108	301	201	47	677	21	652
PCT	1.8	16.0	44.5	29.7	6.9	100.0	3.1	96.3

PERIOD: (PRIMARY) JUNE AREA 0023 N. E. PERSIAN GULF  
(OVER-ALL) 1963-1970 27.2N 51.8E

TABLE 1B

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N										NE										PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	4.0	1.1	.0	.0	.0	.0	5.1	.2	.9	.0	.0	.0	.0	1.1	.0	.7	.0	.0	.0	.0	1.7
1-2	.7	1.3	.0	.0	.0	.0	2.0	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.7	1.3	.0	.0	.0	2.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-24	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
25-29	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
30-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-46	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
47-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	4.8	3.1	1.8	.0	.0	.0	9.7	.2	1.7	.0	.0	.0	.0	1.8	.0	1.7	.0	.0	.0	.0	1.8

HGT	E										SE										PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.6	1.3	.0	.0	.0	.0	1.8	.0	1.5	.0	.0	.0	.0	1.5	.0	.7	.0	.0	.0	.0	1.5
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.7	.0	.0	.0	.7	.0	1.5	.0	.0	.0	.0	1.5	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.6	1.5	.7	.0	.0	.0	2.6	.0	3.7	.0	.0	.0	.0	3.7	.0	3.7	.0	.0	.0	.0	3.7

JUNE

PERIOD: (PRIMARY)  
(OVER-ALL) 1963-1970

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.6	3.9	5.1	.0	.0	.0	.0	9.0
1-2	.0	1.3	.0	.0	.0	.0	1.3	.0	.9	.0	.0	.0	.0	.9
3-4	.0	.0	.0	.0	.0	.0	.4	.0	.9	.0	.0	.0	.0	.9
5-6	.0	.7	.0	.0	.0	.0	.7	.0	.0	.2	.0	.0	.0	.2
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.6	2.6	.0	.0	.0	.0	3.1	3.9	7.0	.2	.0	.0	.0	11.0

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	2.7	5.5	.0	.0	.0	.0	7.7	1.1	4.4	.0	.0	.0	.0	5.5
1-2	.0	6.1	2.2	.0	.0	.0	8.8	.9	11.8	2.9	.0	.0	.0	15.6
3-4	.0	1.8	1.5	.0	.0	.0	3.3	.0	7.0	6.8	.0	.0	.0	13.8
5-6	.0	.0	1.3	.0	.0	.0	1.3	.0	1.5	5.1	.7	.0	.0	7.4
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.9	.0	.0	.0	2.9
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	.0	.0	.7
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.2
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	.0	.0	.7
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.8	13.4	5.0	.0	.0	.0	21.1	2.0	24.6	18.0	2.2	.0	.0	46.9

PERIOD: (PRIMARY)  
(OVER-ALL) 1963-1970

JUNE

AREA 0023 N. E. PERSIAN GULF  
27.2N 51.8E

TABLE 18 (CONT)

WIND SPEED (KTS) VS SEA HEIGHT (FT)								TOT OBS
HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	25.2	17.2	.0	.0	.0	.0	42.3	
1-2	3.1	19.0	4.3	.0	.0	.0	26.4	
3-4	.0	10.4	3.6	.0	.0	.0	19.0	
5-6	.0	1.8	5.5	.6	.0	.0	8.0	
7	.0	.0	2.5	.0	.0	.0	2.3	
8-9	.0	.0	.0	.6	.0	.0	.6	
10-11	.0	.0	.6	.0	.0	.0	.6	
12	.0	.0	.0	.6	.0	.0	.6	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	28.2	48.5	21.5	1.8	.0	.0	100.0	163

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+ TOTAL	MEAN HGT
<6	2.7	25.8	15.2	3.7	.8	.2	.2	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	306
6-7	.0	.6	3.5	1.7	1.2	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	37
8-9	.0	.0	.4	.4	1.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	11
10-11	.0	.2	.0	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3
12-13	.0	.0	.0	.0	.0	.0	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
INDET	24.9	3.3	.6	1.2	.8	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	160
TOTAL	105	155	102	36	19	3	5	4	0	0	0	0	0	0	0	0	0	0	0	519
PCT	37.6	29.9	19.7	6.9	3.7	.6	1.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0

JULY

PERIOD: (PRIMARY) 1947-1970  
(OVER-ALL) 1910-1970

AREA 0023 N. E. PERSIAN GULF  
27.2N 51.8E

TABLE 1

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	RAIN SHR	RAIN SHR	ORCL	PRECIP PCPN	PRECIPITATION TYPE FRZN PCPN	HAIL	PCT FREQ PCPN AT DB TIME	TOTAL PCPN OBS	THOR LTNG	OTHER WEATHER PHENOMENA					TOTAL OBS
										FG	SMOKE	HAZE	BLWG	OUST	
N	.0	.1	.0	.0	.0	.0	.0	0	.0	.2	1.0	1.0	1.0	2.8	33
NE	.0	.0	.0	.0	.0	.0	.0	0	.0	.1	.2	.1	.1	1.4	13
E	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	1.0	.6	.6	3.5	30
SE	.0	.0	.0	.0	.0	.0	.0	0	.0	.1	2.1	.6	.6	3.8	46
S	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	1.2	.5	.5	3.2	26
SW	.0	.0	.0	.0	.0	.0	.0	0	.0	.1	.7	.1	.1	4.1	23
W	.0	.0	.0	.0	.0	.0	.0	0	.2	.1	3.7	1.8	1.8	15.3	150
NW	.0	.0	.0	.0	.0	.0	.0	0	.2	.4	6.9	3.9	3.9	24.8	255
VAR	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
CALM	.0	.0	.0	.0	.0	.0	.0	0	.3	.4	3.0	1.1	1.1	9.2	98
TOT OBS	.0	.1	.0	.0	.0	.0	.0	1	.3	1.1	14.0	6.0	6.0	84	707
TOT PCT	.0	.1	.0	.0	.0	.0	.1		.4	1.6	19.8	9.6	9.6	68.5	100.0

TABLE 2

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	RAIN SHR	RAIN SHR	ORCL	PRECIP PCPN	PRECIPITATION TYPE FRZN PCPN	HAIL	PCT FREQ PCPN AT DB TIME	TOTAL PCPN OBS	THOR LTNG	OTHER WEATHER PHENOMENA					TOTAL OBS
										FG	SMOKE	HAZE	BLWG	OUST	
0000	.0	.5	.0	.0	.0	.0	.5	1	.5	1.1	20.3	3.6	3.6	67.9	187
0600	.0	.0	.0	.0	.0	.0	.0	0	.0	1.7	21.6	10.8	10.8	65.2	176
1200	.0	.0	.0	.0	.0	.0	.0	0	.0	1.5	16.2	9.6	9.6	72.7	198
1800	.0	.0	.0	.0	.0	.0	.0	0	1.0	2.0	19.6	9.5	9.5	67.8	199
TOT	.0	.1	.0	.0	.0	.0	.1	1	.4	12	147	75	75	522	760
PCT	.0	.1	.0	.0	.0	.0	.1		.4	1.5	19.3	9.9	9.9	68.7	100.0



JULY

PERIOD: (PRIMARY) 1947-1970  
(OVER-ALL) 1910-1970AREA 0023 N. E. PERSIAN GULF  
27.2N 51.8E

TABLE 3

## PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47				48+	00	03	06	09	12	15	18
N	1.8	2.3	1.4	.2	.0	.0	48	5.7	5.5	20.0	5.7	14.2	3.1	10.5	6.3	4.5
NE	.8	1.2	.4	.0	.0	.0	17	2.0	2.4	1.0	2.3	1.7	.9	10.5	1.6	.0
E	.8	3.4	.7	.0	.0	.0	41	4.9	3.3	15.0	9.3	5.0	4.0	.0	3.8	.0
SE	1.1	4.5	.5	.0	.0	.0	51	6.0	4.3	.0	6.8	5.0	9.2	.0	5.5	4.5
S	1.0	3.5	.5	.0	.0	.0	43	5.0	5.7	.0	4.5	6.7	6.0	.0	4.5	4.5
SW	1.5	2.9	.7	.0	.0	.0	42	5.0	6.6	10.0	3.1	5.0	6.3	2.6	3.1	9.1
W	3.0	16.5	4.4	.2	.0	.0	189	22.1	24.2	5.0	18.9	18.2	21.2	25.0	24.7	25.8
NW	4.1	19.7	11.1	.6	.0	.0	304	35.5	31.0	35.0	36.2	30.8	38.1	35.5	38.5	27.3
VAR	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	13.8	466	165	9	0	0	118	13.8	16.6	10.0	13.1	13.3	11.3	15.8	12.0	27.3
TOT OBS	237	466	165	9	0	0	837	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
TOT PCT	27.7	52.0	19.3	1.1	.0	.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)											
	0-6	7-16	17-27	28-40	41+				00	03	06	09	12	15	18	21				
N	3.0	2.3	.4	.0	.0	48	5.7	7.6	6.2	6.9	3.7	6.0	3.7	6.0	3.7	6.0				
NE	1.5	.5	.0	.0	.0	17	2.0	4.8	2.9	2.9	2.2	1.7	1.3	1.7	1.3	1.3				
E	5.2	1.5	.1	.0	.0	41	4.9	6.5	3.9	3.9	8.7	3.7	3.2	3.7	3.2	3.2				
SE	4.3	1.7	.1	.0	.0	51	6.0	5.9	4.1	4.1	6.6	6.4	4.9	6.4	4.9	4.9				
S	3.9	.9	.3	.0	.0	43	5.0	6.0	5.5	5.5	4.8	5.5	4.5	4.8	4.5	4.5				
SW	3.4	1.5	.1	.0	.0	42	5.0	6.0	6.7	6.7	3.4	5.9	4.0	5.9	4.0	4.0				
W	9.2	11.7	1.2	.0	.0	189	22.1	8.2	23.2	23.2	18.8	21.5	24.9	21.5	24.9	24.9				
NW	12.8	18.8	3.8	.1	.0	304	35.5	9.2	31.2	31.2	35.4	37.9	36.8	37.9	36.8	36.8				
VAR	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0				
CALM	13.8	33.5	51	1	.0	118	13.8	.0	16.2	16.2	13.1	11.7	14.3	11.7	14.3	14.3				
TOT OBS	472	38.9	51	1	.0	837	100.0	5.9	197	197	213	223	224	223	224	224				
TOT PCT	55.1	38.9	5.0	.1	.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0				

JULY

PERIOD: (PRIMARY) 1947-1970  
(OVER-ALL) 1910-1970

AREA 0023 N. E. PERSIAN GULF  
27.2N 51.8E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
0000	16.2	14.2	52.8	14.7	2.0	.0	.0	6.4	100.0	197
0600	13.1	19.2	49.8	17.4	.5	.0	.0	6.2	100.0	213
1200	11.7	9.4	52.0	26.5	.4	.0	.0	7.8	100.0	223
1800	14.3	12.9	53.6	17.9	1.3	.0	.0	7.0	100.0	224
TOT	118	119	446	165	9	0	0	6.5		857
PCT	13.8	13.9	52.0	19.3	1.1	.0	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)  
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8-1	TOTAL	MEAN CLOUD COVER
N	3.8	.3	.1	.3	26	1.0
NE	1.5	.2	.4	.4	12	1.7
E	4.5	.6	.2	.3	32	1.1
SE	6.2	.6	.3	.4	44	1.0
S	5.2	.0	.5	.2	34	1.0
SW	4.6	.4	.4	.0	31	.9
W	18.8	.7	.6	1.1	123	.8
NW	31.2	1.2	1.7	.5	201	.7
VAR	.0	.0	.0	.0	0	.0
CALM	12.1	.5	.5	.3	79	.6
TOT OBS	515	26	27	17	585	.8
TOT PCT	88.0	4.4	4.6	2.9	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT) NH >4/8)  
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WIND DIR	000	149	150	299	300	399	499	500	600	699	799	800+	ANY HGT	TOTAL OBS
N	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	4.2	26
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	1.7	12
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.3	5.2	32
SE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.2	7.3	44
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	5.3	34
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.0	31
W	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	5.0	123
NW	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	35.6	201
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
CALM	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	12.8	79
TOT OBS	3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	557	585
TOT PCT	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	1.9	95.2	100.0

PERIOD: (PRIMARY) 1947-1970  
(OVER-ALL) 1910-1970

JULY

AREA 0023 N. E. PERSIAN GULF  
27.2N 51.0E

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE  
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	OR >10	OR >5	OR >2	VSBY (NM) OR >1	OR >1/2	OR >1/4	OR >50VC	OR >0
OR >6500	2	1.3	1.9	1.9	1.7	1.9	1.9	1.9
OR >5000	2	1.3	2.1	2.1	2.1	2.1	2.1	2.1
OR >3500	3	1.6	2.4	2.4	2.4	2.4	2.4	2.4
OR >2000	1	2.1	3.0	3.0	3.0	3.0	3.0	3.0
OR >1000	1.1	2.8	4.0	4.0	4.0	4.0	4.0	4.0
OR >600	1.1	2.8	4.0	4.0	4.0	4.0	4.0	4.0
OR >300	1.1	2.8	4.0	4.0	4.0	4.0	4.0	4.0
OR >150	1.1	2.8	4.0	4.0	4.0	4.0	4.0	4.0
TOTAL	7	18	27	27	27	27	27	27

TOTAL NUMBER OF OBS 632

PCT FREQ NH <5/81

95.7

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	9	TOTAL OBS
80.5	7.0	2.9	1.2	1.0	1.1	.3	1.8	1.5	.9	658

PERIOD: (PRIMARY) 1947-1970  
(OVER-ALL) 1910-1970

JULY

AREA 0023 N. E. PERSIAN GULF  
27.2N 51.8E

TABLE 8  
PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF  
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VISY (MM)	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
NO PCP	.0	.0	.0	.0	.0	.0	.1	.1	.0	.1	.4	
TOT %	.0	.0	.0	.0	.0	.0	.1	.1	.0	.1	.4	
1/2<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
NO PCP	.0	.0	.0	.0	.0	.0	.0	.7	.0	.0	.7	
TOT %	.0	.0	.0	.0	.0	.0	.0	.7	.0	.0	.7	
1<2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
NO PCP	.5	.1	.1	.0	.0	.0	1.1	1.8	.0	.1	3.7	
TOT %	.5	.1	.1	.0	.0	.0	1.1	1.8	.0	.1	3.7	
2<3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
NO PCP	.8	.1	.3	.7	.7	.4	1.5	3.9	.0	1.1	9.5	
TOT %	.8	.1	.3	.7	.7	.4	1.5	3.9	.0	1.1	9.5	
3<10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
NO PCP	2.0	.9	2.4	3.3	2.1	2.1	7.0	10.6	.0	6.0	36.3	
TOT %	2.0	.9	2.4	3.3	2.1	2.1	7.0	10.6	.0	6.0	36.3	
10+	.1	.8	.0	.0	.0	.0	.0	.0	.0	.0	.1	
NO PCP	1.7	.8	2.4	2.7	2.3	2.6	11.5	19.0	.0	6.4	49.2	
TOT %	1.8	.8	2.4	2.7	2.3	2.6	11.5	19.0	.0	6.4	49.2	
TOT OBS	5.0	2.0	5.2	6.6	5.1	5.0	21.1	36.2	.0	13.9	100.0	703

PERIOD: (PRIMARY) 1947-1970  
(OVER-ALL) 1910-1970

JULY

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED  
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT D8S	TOTAL D8S
1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.1
	4-10	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1	.1
	11-21	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.1	.0	.1	.4	.4
	TOT %	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.3	.3
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1	.1
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.6	.0	.0	.6	.6
1<2	0-3	.1	.1	.0	.0	.0	.0	.0	.2	.0	.1	.5	.5
	4-10	.3	.0	.0	.0	.0	.0	.8	1.2	.0	.0	2.3	2.3
	11-21	.2	.0	.0	.0	.0	.0	.0	.2	.0	.0	.4	.4
	22+	.0	.0	.0	.0	.0	.0	.1	1.2	.0	.1	.3	.3
	TOT %	.5	.1	.0	.0	.0	.0	.9	1.7	.0	.1	3.4	3.4
2<5	0-3	.1	.1	.0	.0	.0	.3	.3	.8	.0	1.0	2.5	2.5
	4-10	.6	.1	.1	.4	.5	.1	.6	1.8	.0	.0	4.3	4.3
	11-21	.2	.0	.1	.2	.1	.2	.4	1.2	.0	.0	2.3	2.3
	22+	.1	.0	.0	.0	.0	.0	.0	.1	.0	.0	.3	.3
	TOT %	1.0	.3	.2	.6	.6	.5	1.3	3.8	.0	1.0	9.3	9.3
5<10	0-3	.7	.4	.3	.6	.4	.8	1.1	1.0	.0	5.6	10.9	10.9
	4-10	.7	.6	1.7	2.1	1.6	.8	4.4	5.8	.0	.0	17.6	17.6
	11-21	.3	.0	.3	.3	.3	.2	1.2	3.0	.0	.0	5.5	5.5
	22+	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.3	.3
	TOT %	1.7	.9	2.2	3.0	2.3	1.8	6.6	10.1	.0	5.6	34.3	34.3
10+	0-3	.8	.3	.5	.5	.7	.5	1.8	2.1	.0	7.3	14.4	14.4
	4-10	.7	.6	1.5	2.1	1.3	2.1	8.1	11.5	.0	.0	28.2	28.2
	11-21	.7	.0	.3	.2	.1	.4	2.2	5.4	.0	.0	9.4	9.4
	22+	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1
	TOT %	2.3	.8	2.7	2.8	2.1	2.9	12.1	19.0	.0	7.3	52.1	52.1
TOT D8S		5.5	2.1	5.2	6.4	5.0	5.2	21.1	35.3	.0	14.1	100.0	799
TOT PCT													

STATION (PRIMARY) 1947-1970  
(OVER-ALL) 1910-1970

JULY

AREA 0023 N. E. PERSIAN GULF  
27.2N 51.8E

TABLE 10  
PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH > 4/8) AND  
OCCURRENCE OF NH < 5/8 BY HOUR

HOUR (GMT)	000 149	000 149	150 299	300 399	300 399	400 499	500 599	600 699	700 799	800 899	900 999	TOTAL ANY MGT	TOTAL NH < 5/8 OBS
00003	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
06005	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12015	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
18021	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT	3	0	0	0	0	0	0	0	0	0	0	0	0
PCT	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0

TABLE 11

PERCENT FREQUENCY VS8Y (NH) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1/2	2<5	5<10	10+	TOTAL OBS
00003	.6	.6	1.3	7.7	35.9	53.8	156
06009	1.3	.7	3.3	12.0	34.7	48.0	150
12015	.0	.6	1.2	7.1	32.1	58.9	168
18021	.5	.0	1.2	6.8	39.8	51.6	161
TOT	4	3	1.1	53	226	338	635
PCT	.6	.5	1.7	8.3	35.6	53.2	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VS8Y (NH) AND/OR  
CEILING HGT (FEET, NH > 4/8) BY HOUR

HOUR (GMT)	<150 <50Y0	<600 <1	<1000 <5	1000+ AND 5+	TOTAL OBS
00003	.6	1.3	10.3	55.3	156
06009	1.3	2.7	17.3	80.0	150
12015	.6	1.2	8.9	88.1	168
18021	.6	1.2	8.7	90.1	161
TOT	5	10	71	246	635
PCT	.8	1.6	11.2	86.0	100.0

JULY

PERIOD: (PRIMARY) 1947-1970  
(OVER-ALL) 1910-1970

AREA 0023 N. E. PERSIAN GULF  
27.2N 51.8E

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL DBS	PCT FREQ
100/104	.0	.2	.0	.0	.4	.0	.0	.0	3	.5
95/99	.0	.0	.5	1.2	3.4	2.5	.0	.0	43	7.6
90/94	.0	.0	.2	2.3	14.5	22.1	11.7	4.9	313	53.7
85/89	.0	.0	.0	1.2	3.4	9.4	15.7	5.1	197	34.8
80/84	.0	.0	.0	.0	.0	.5	.4	.5	8	1.4
TOTAL	.0	1	4	27	122	105	157	60	564	100.0
PCT	.0	.2	.7	4.8	21.6	34.5	27.7	10.6		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
100/104	.0	.0	.0	.0	.0	.0	.0	.4	.0	.2
95/99	.6	.1	.6	.6	.4	.2	1.6	2.8	.0	.7
90/94	2.6	1.1	3.4	3.5	2.3	2.1	13.3	20.5	.0	6.7
85/89	2.0	.7	1.8	2.8	2.2	2.4	6.2	12.0	.0	4.8
80/84	.1	.2	.0	.1	.2	.1	.4	.4	.0	.0
TOTAL	29	11	32	39	30	27	121	204	0	70
PCT	5.2	2.0	5.8	7.0	5.3	4.8	21.5	36.1	.0	12.4

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	90%	5%	1%	MIN	MEAN	TOTAL DBS
00003	98	94	92	89	85	83	83	88.5	216
06009	99	97	95	91	86	85	84	90.8	209
12015	104	102	98	92	88	85	84	92.6	216
18021	95	94	93	89	85	84	84	89.2	234
TOT	104	99	95	90	86	84	83	90.3	875

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL DBS
00003	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
06009	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12015	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
18021	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT	0	0	0	0	0	0	0	0	0	0

PERIOD: (PRIMARY) 1947-1970  
(OVER-ALL) 1910-1970

JULY

AREA 0023 N. E. PERSIAN GULF  
27.2N 51.8E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (OEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)  
VS AIR-SEA TEMPERATURE DIFFERENCE (OEG F)

AIR-SEA TMP DIF	81	85	89	93	TOT	M	NO FOG
	84	88	92	96		FOG	
14/16	.0	.0	.0	.2	5	.0	.5
11/13	.0	.0	.5	.5	18	.0	1.9
9/10	.0	.3	.5	.5	16	.0	1.9
7/8	.0	.3	.6	1.5	28	.0	3.6
6	.0	.0	.3	1.6	12	.0	1.9
5	.0	.6	1.6	2.3	28	.2	4.4
4	.0	1.1	4.4	3.6	62	.3	9.2
3	.0	.6	7.0	2.9	67	.2	10.5
2	.3	2.1	9.4	1.6	33	.2	13.3
1	.0	1.9	7.1	.3	58	.5	4.9
0	.8	5.7	9.5	.8	104	.5	16.3
-1	.3	3.2	4.4	.2	30	.0	8.1
-2	.2	3.7	2.4	.0	39	.2	6.1
-3	.2	2.4	2.9	.0	34	.0	5.5
-4	.0	1.0	.2	.0	7	.0	1.1
-5	.0	.5	.0	.0	3	.0	.5
-6	.0	.6	.0	.0	4	.0	.6
TOTAL	11	151	314	98	618	12	584
PCT	1.8	24.4	50.8	15.9	100.0	1.9	94.5



PERIOD: (PRIMARY)  
(OVER-ALL) 1963-1970

JULY

TABLE 16

PCT FREQ OF WIND SPEED (KYS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

AREA 0023 N. E. PERSIAN GULF  
27.2N 51.8E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.7	.7	.0	.0	.0	.0	1.3	.0	.2	.0	.0	.0	.0	.2
1-2	.0	1.3	.6	.0	.0	.0	1.9	.0	.9	.0	.0	.0	.0	.9
3-4	.0	.0	1.1	.0	.0	.0	1.1	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.7	2.0	1.7	.0	.0	.0	4.4	.0	1.1	.0	.0	.0	.0	1.1

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.7	3.3	.0	.0	.0	.0	4.1	2.2	1.9	.0	.0	.0	.0	4.1
1-2	.0	1.3	.0	.0	.0	.0	1.3	.0	2.2	.7	.0	.0	.0	2.9
3-4	.0	.0	1.3	.0	.0	.0	1.7	.0	.6	.0	.0	.0	.0	.0
5-6	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.7	4.6	2.0	.0	.0	.0	7.4	2.2	4.1	1.7	.0	.0	.0	8.0

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.9	3.5	.0	.0	.0	.0	5.4	2.0	.0	.0	.0	.0	.0	2.0
1-2	.0	1.1	.0	.0	.0	.0	1.1	.7	.4	.0	.0	.0	.0	1.1
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.9	4.6	.0	.0	.0	.0	5.5	2.8	.4	.0	.0	.0	.0	3.1

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.3	6.3	.0	.0	.0	.0	10.2	1.9	7.8	.0	.0	.0	.0	9.6
1-2	.7	13.7	1.9	.0	.0	.0	16.5	.7	12.4	2.0	.0	.0	.0	15.2
3-4	.0	.0	1.9	.0	.0	.0	1.9	.0	3.0	4.4	.7	.0	.0	8.1
5-6	.0	.0	1.7	.0	.0	.0	1.7	.0	.7	5.0	.0	.0	.0	5.7
7	.0	.0	.7	.0	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	4.6	20.0	6.1	.0	.0	.0	30.7	2.6	23.5	11.5	.7	.0	.0	36.7

PERIOD: (PRIMARY)  
(OVER-ALL) 1963-1970

JULY

AREA 0023 N. E. PERSIAN GULF  
27.2N 51.8E

TABLE 18 (CONT)

HGT	WIND SPEED (KTS) VS SEA HEIGHT (FT)							TOT DBS
	0-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	29.8	19.3	.0	.0	.0	.0	49.1	
1-2	2.9	26.3	4.1	.0	.0	.0	33.3	
3-4	.0	2.3	7.6	.6	.0	.0	10.5	
5-6	.0	.6	5.8	.0	.0	.0	6.4	
7	.0	.0	.6	.0	.0	.0	.6	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	32.7	48.5	18.1	.6	.0	.0	100.0	
							171	

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+ TOTAL	MEAN HGT
<6	14.0	21.2	10.4	3.4	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.42
6-7	.2	1.4	3.4	3.4	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.3
8-9	.0	.4	.6	.2	.4	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9
10-11	.0	.6	.2	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6
12-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
INDEX	30.6	5.2	3.2	.6	.0	.2	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	200
TOTAL	224	144	89	35	5	2	0	0	0	0	0	0	0	1	0	0	0	0	0	500
PCT	44.8	28.8	17.8	7.0	1.0	.4	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	100.0

PERIOD: (PRIMARY) 1947-1970  
(OVER-ALL) 1907-1970

AUGUST

AREA 0023 N. E. PERSIAN GULF  
27.2H 51.6E

TABLE 1

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	RAIN	RAIN SHWR	ORZL	PRECIPITATION TYPE			HAIL	PCT FREQ PCPN AT DB TIME	TOTAL PCPN DBS	THOR LTNG	OTHER WEATHER PHENOMENA				TOTAL DBS
				DRZL	FRZG	SNOW	OTHER				FG	SMOKE	OUST	NO	
				PCPN	PCPN		PCPN				MO	HAZE	BLWG	SNOW	NEA
N	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.4	.3	5.8	46
NE	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.3	.0	2.7	21
E	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.6	.1	5.6	45
SE	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.1	.7	.0	7.7	61
S	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.4	.0	4.2	32
SW	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	1.4	.1	5.0	46
W	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.1	1.9	.6	16.2	134
NW	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.7	2.8	.7	29.4	239
VAR	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.4	1.5	.6	9.5	86
TOT DBS	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	1.72	.17	615	714
TOT PCT	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	1.4	10.1	2.4	86.1	100.0

TABLE 2

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	RAIN	RAIN SHWR	ORZL	PRECIPITATION TYPE			HAIL	PCT FREQ PCPN AT DB TIME	TOTAL PCPN DBS	THOR LTNG	OTHER WEATHER PHENOMENA				TOTAL DBS
				DRZL	FRZG	SNOW	OTHER				FG	SMOKE	OUST	NO	
				PCPN	PCPN		PCPN				MO	HAZE	BLWG	SNOW	NEA
0000	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	1.2	10.2	3.0	85.2	164
0600	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.9	10.0	1.9	87.2	211
1200	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	1.5	9.8	2.5	86.3	204
1800	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	1.6	11.0	1.6	83.9	191
TOT	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	1.0	7.9	1.7	66.6	772
PCT	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	1.3	10.2	2.2	86.3	100.0

## AUGUST

PERIOD: (PRIMARY) 1947-1970  
(OVER-ALL) 1907-1970AREA 0023 N. E. PERSIAN GULF  
27.3N 51.6E

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)					48+	TOTAL OBS	PCT FREQ	MEAN SPO	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47					00	03	06	09	12	15	18	21
N	.9	4.3	1.6	*	.0	.0	71	6.8	8.3	10.1	1.9	7.9	8.0	4.0	9.2	5.1	3.8
NE	.6	2.1	*	*	.0	.0	29	2.8	5.5	2.5	.0	3.3	3.0	1.3	2.0	4.8	1.5
E	1.6	4.1	.2	.0	.0	.0	62	5.9	5.5	7.8	3.8	6.3	3.0	4.8	10.2	4.9	6.1
SE	1.7	5.5	.7	.0	.0	.0	83	7.9	5.9	5.3	3.8	9.7	5.2	11.8	3.1	6.1	8.3
S	1.8	3.1	.4	.0	.0	.0	55	5.3	4.9	2.9	3.8	5.7	8.2	6.2	3.1	3.5	6.8
SW	1.8	4.7	.5	.0	.0	.0	73	7.0	5.8	5.4	1.9	5.3	3.0	10.0	9.2	7.3	9.1
W	2.8	13.9	4.1	*	.0	.0	218	20.8	7.6	18.8	48.1	16.3	13.9	24.4	27.0	20.2	22.7
NW	3.2	19.1	8.8	.3	.0	.0	328	31.3	8.7	30.6	32.7	33.9	33.2	24.9	26.0	37.1	26.5
VAR	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	12.0	594	171	5	0	0	126	12.0	.0	15.5	3.8	11.5	15.2	9.7	10.2	11.0	15.2
TOT OBS	277	56.7	16.3	.5	.0	.0	1047	100.0	6.5	206	26	216	66	207	49	209	66
TOT PCT	26.5									100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)										HOUR (GMT)					
	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPO	00	03	06	09	12	15	18	21
N	2.8	3.6	.5	.0	.0	71	6.8	8.3	9.2	2.3	7.9	5.7	4.0	3.7	4.8	
NE	2.0	1.7	.1	.0	.0	29	2.8	5.5	2.3	.0	3.2	1.5	4.0	1.5	4.0	
E	4.3	1.6	.1	.0	.0	62	5.9	5.5	7.3	3.3	5.5	5.9	5.2	5.9	5.2	
SE	5.6	2.3	.0	.0	.0	83	7.9	5.9	5.2	3.4	9.4	10.2	6.6	6.6	6.6	
S	4.4	.8	.0	.0	.0	55	5.3	4.9	3.0	3.0	6.3	7.2	4.3	7.2	4.3	
SW	5.0	2.0	.1	.0	.0	73	7.0	5.8	5.9	4.8	4.8	9.9	7.7	9.9	7.7	
W	10.1	10.1	.4	.0	.0	218	20.8	7.6	22.1	10.2	10.2	24.9	20.8	24.9	20.8	
NW	10.4	20.2	.8	.0	.0	328	31.3	8.7	30.8	32.7	32.7	25.1	34.5	25.1	34.5	
VAR	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	12.0	.0	.0	.0	.0	126	12.0	6.5	14.2	12.3	12.3	9.8	12.0	9.8	12.0	
TOT OBS	593	432	22	0	0	1047	100.0	6.5	232	24	244	256	275	256	275	
TOT PCT	56.6	41.3	1.1	.0	.0				100.0	100.0	100.0	100.0	100.0	100.0	100.0	

AREA 0023 N. E. PERSIAN GULF  
27.3N 51.6E

AUGUST

PERIOD: (PRIMARY: 1947-1970  
(OVER-ALL) 1907-1970

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47					
00003	14.2	15.9	53.0	15.4	.4	.0		.0	6.3	100.0	232
06009	12.3	15.8	51.4	20.4	.0	.0		.0	6.6	100.0	284
12015	9.8	12.1	64.5	12.9	.8	.0		.0	6.5	100.0	256
18021	12.0	13.8	58.2	15.3	.7	.0		.0	6.5	100.0	275
TOT	126	151	594	171	5	0		0	6.5	100.0	1047
PCT	12.0	14.4	56.7	16.3	.5	.0		.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)  
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8-6	TOTAL OBS	MEAN CLOUD COVER
N	6.6	.0	.2	.2	43	.4
NE	2.6	.4	.0	.0	18	.5
E	5.3	.5	.3	.0	38	.8
SE	7.3	.4	.5	.2	52	.8
S	4.5	.2	.2	.0	30	.5
SW	6.2	.2	.1	.2	42	.6
W	17.8	.8	.8	.2	123	.7
NW	31.0	.3	.5	.3	203	.4
VAR	.0	.0	.0	.0	0	.0
CALM	11.7	.2	.6	.0	79	.4
TOT OBS	583	18	20	6	632	.5
TOT PCT	93.0	2.8	3.2	.9	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH > 4/8)  
AND OCCURRENCE OF NH < 5/8 BY WIND DIRECTION

WIND DIR	000	145	150	299	300	599	600	1000	2000	3499	3500	5000	6500	8000+	NH < 5/8	TOTAL
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	43
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	18
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	38
SE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	52
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	30
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	42
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	123
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	203
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	79
TOT OBS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	632
TOT PCT	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0

PERIOD: (PRIMARY) 1947-1970  
(OVER-ALL) 1907-1970

AUGUST

AREA 0023 N. E. PERSIAN GULF  
27.3N 51.0E

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE  
OF CEILING HEIGHT (NH > 478) AND VSBY (NH)

CEILING (FEET)	VSBY (NH)									
	" OR >10	" OR >5	" OR >2	" OR >1	" OR >1/2	" OR >1/4	" OR >50YD	" OR >0	" OR >0	" OR >0
" OR >6500	.3	.6	.6	.6	.6	.6	.6	.6	.6	.6
" OR >5000	.4	.9	.9	.9	.9	.9	.9	.9	.9	.9
" OR >3500	.6	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
" OR >2000	.7	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
" OR >1000	.9	1.1	2.1	2.2	2.2	2.2	2.2	2.2	2.2	2.2
" OR >600	.9	1.2	2.2	2.3	2.3	2.3	2.3	2.3	2.3	2.3
" OR >300	.9	1.2	2.2	2.3	2.3	2.3	2.3	2.3	2.3	2.3
" OR >150	.9	1.2	2.2	2.3	2.3	2.3	2.3	2.3	2.3	2.3
" OR >0	.9	1.2	2.2	2.3	2.3	2.3	2.3	2.3	2.3	2.3
TOTAL	6	15	15	16	16	16	16	16	16	16

TOTAL NUMBER OF OBS: 681

PCT FREQ NH < 5/81 97.7

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	9	TOTAL OBS
85.8	10.1	2.4	1.0	1.0	1.5	.4	.8	.2	.5	.0	841

PERIOD: (PRIMARY) 1947-1970  
(OVER-ALL) 1907-1970

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AREA 0023 N. E. PERSIAN GULF  
27.3N 51.6E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF  
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	N	NE	E	SE	S	SW	W	NW	VAR	CALC	PCT	TOTAL OBS
PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1/2<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1
TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.1
1<2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NO PCP	.0	.0	.0	.0	.0	.2	.2	.7	.0	.1	.1	1.3
TOT %	.0	.0	.0	.0	.0	.2	.2	.7	.0	.1	.1	1.3
2<5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NO PCP	.2	.0	.3	.3	.1	.5	.9	1.5	.0	.7	4.6	4.6
TOT %	.2	.0	.3	.3	.1	.5	.9	1.5	.0	.7	4.6	4.6
5<10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NO PCP	1.1	.5	2.0	2.9	1.5	2.7	6.2	7.9	.0	3.2	27.9	27.9
TOT %	1.1	.5	2.0	2.9	1.5	2.7	6.2	7.9	.0	3.2	27.9	27.9
10+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NO PCP	5.2	2.5	4.1	5.4	2.9	2.9	11.6	23.4	.0	7.9	66.0	66.0
TOT %	5.2	2.5	4.1	5.4	2.9	2.9	11.6	23.4	.0	7.9	66.0	66.0
TOT OBS	6.6	3.0	6.6	8.6	4.5	6.4	18.9	33.5	.0	12.1	100.0	712
TOT PCT	6.6	3.0	6.6	8.6	4.5	6.4	18.9	33.5	.0	12.1	100.0	712



AUGUST

PERIOD: (PRIMARY) 1947-1970  
(OVER-ALL) 1907-1970AREA 0023 N. E. PERSIAN GULF  
27.3N 51.6E

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED  
WITH VARYING VALUES OF VISIBILITY

VSBY (mi)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.1
	4-10	.0	.0	.0	.0	.0	.0	.2	.1	.0	.0	.2	.2
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT *	.0	.0	.0	.0	.0	.0	.2	.1	.0	.1	.3	.3
1/2	0-3	.1	.0	.0	.0	.0	.1	.2	.1	.0	.2	.5	.5
	4-10	.0	.0	.0	.0	.0	.1	.1	.3	.0	.0	.4	.4
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT *	.1	.0	.0	.0	.0	.2	.2	.7	.0	.2	1.3	1.3
2/5	0-3	.0	.1	.2	.1	.2	.3	.6	.1	.0	.5	1.0	1.0
	4-10	.0	.1	.2	.1	.1	.3	.2	.4	.0	.0	.6	.6
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT *	.2	.1	.2	.2	.1	.4	.8	1.4	.0	.5	4.0	4.0
5/10	0-3	.2	.1	.6	.9	.5	.5	1.3	.8	.0	3.7	8.6	8.6
	4-10	.6	.3	.9	1.8	.9	1.6	3.9	4.4	.0	14.6	38.7	38.7
	11-21	.1	.0	.1	.1	.0	.1	1.0	2.2	.0	3.6	12.4	12.4
	22+	.1	.1	.0	.0	.0	.0	.1	.1	.0	.2	2.2	2.2
	TOT *	1.2	.4	1.6	2.8	1.4	2.2	6.3	7.4	.0	3.7	27.0	27.0
10+	0-3	.7	.5	1.1	.7	1.3	1.2	1.3	2.1	.0	7.2	16.1	16.1
	4-10	3.2	1.9	3.1	3.4	1.5	2.4	9.4	13.9	.0	38.7	97.5	97.5
	11-21	1.6	.1	.1	.7	.4	.4	3.0	6.2	.0	12.4	38.7	38.7
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT *	5.5	2.5	4.2	4.7	3.2	3.9	13.6	22.4	.0	7.2	67.4	67.4
TOT OBS		7.0	3.0	6.2	7.8	4.7	6.7	21.1	31.9	.0	11.7	100.0	100.0
TOT PCT													

PERIOD: (PRIMARY) 1947-1970  
(OVER-ALL) 1907-1970

AUGUST

AREA 0023 N.E. PERSIAN GULF  
27.3N 51.0E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET) NH >4/8) AND  
OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	AN <5/8 ANY NGT	TOTAL OBS
0000Z	.0	.0	.0	.5	.0	1.1	.0	.5	.0	.5	2.7	97.3	188
0600Z	.0	.0	.0	.0	.9	.5	.0	.0	.5	.0	1.8	98.2	217
1201Z	.0	.0	.0	.0	.5	.0	.0	.0	.5	.0	.9	99.1	215
1802Z	.0	.0	.0	.0	.5	.5	.5	.5	.0	.5	2.3	97.7	219
TOT PCT	.0	.0	.0	.1	.4	.5	.1	.2	.2	.2	1.6	82.3	836
											1.9	98.1	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NN) BY HOUR

HOUR (GMT)	<1/2	1/2-1	1-2	2-5	5-10	10+	TOTAL OBS
0000Z	.0	.0	1.4	4.9	24.3	69.4	144
0600Z	.0	.0	1.1	4.8	21.5	72.6	186
1201Z	.0	.5	.0	5.4	23.6	70.3	185
1802Z	.0	.0	.6	3.0	25.3	71.1	166
TOT PCT	.0	.1	.5	.31	161	483	681
				4.6	23.6	70.9	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NN) AND/OR  
CEILING NGT (FEET) NH >4/8) BY HOUR

HOUR (GMT)	<150 <50%0	<600 <1	<1000 <5	1000+ ANOS+	NN <5/8 AND 5+	TOTAL OBS
0000Z	.0	.0	6.9	2.8	90.3	144
0600Z	.0	.0	5.9	1.6	92.5	186
1201Z	.0	.5	5.9	1.1	93.0	185
1802Z	.0	.0	3.6	3.0	93.4	166
TOT PCT	.0	.1	.38	.14	62.9	681
			5.6	2.1	92.4	100.0

## AUGUST

PERIOD: (PRIMARY) 1947-1970  
(OVER-ALL) 1907-1970

AREA C023 N. E. PERSIAN GULF  
27.3N 51.6E

TABLE 13

TEMP F	PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP										TOTAL OBS	PCT FREQ
	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100				
100/104	.0	.0	.0	.7	.1	.1	.0	.0			7	1.0
95/99	.0	.0	.4	3.5	9.2	6.5	1.2	.3			152	21.1
90/94	.0	.0	.0	2.6	13.6	26.4	22.5	3.7			511	70.9
85/89	.0	.0	.0	.3	.4	.7	4.4	1.1			50	6.9
80/84	.0	.0	.0	.0	.0	.0	.1	.0			1	.1
TOTAL	0	0	3	51	168	258	204	37			721	100.0
PCT	.0	.0	.4	7.1	23.3	35.8	28.3	5.1				

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP									
N	NE	E	SE	S	SW	W	NW	VAR	CALM
.3	.1	.0	.0	.0	.0	.4	.1	.0	.0
1.5	.4	1.5	1.0	.6	1.5	4.4	7.1	.0	1.9
5.3	2.3	3.8	5.8	3.1	4.4	16.2	22.9	.0	7.1
.4	.1	1.0	.5	.1	.4	1.1	1.7	.0	1.5
.0	.0	.0	.0	.1	*	.0	.0	.0	.0
54	21	45	56	28	46	159	233	0	76
7.5	3.0	6.3	7.8	3.9	6.4	22.2	32.4	.0	10.5

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR											
HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS		
00003	100	95	94	90	86	84	84	90.4	243		
06009	101	99	97	93	89	88	84	93.0	283		
12015	105	103	99	94	91	58	88	94.2	256		
18021	100	98	95	91	88	85	85	91.3	287		
TOT	10	100	97	92	88	86	84	92.3	1069		

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR									
HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN
00003	.0	1.7	10.3	31.4	49.1	7.4	80		
06009	.0	8.1	28.9	35.0	22.8	5.1	73		
12015	.0	13.8	34.9	40.2	9.5	1.6	70		
18021	.0	5.3	15.0	39.3	33.0	7.2	77		
TOT	0	56	172	281	217	41	75		
TOTAL OBS									

PERIOD: (PRIMARY) 1947-1970  
(OVER-ALL) 1907-1970

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AREA 0023 N. E. PERSIAN GULF  
27.3N 51.6E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)  
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	81	85	89	93	TOT	W	WD
	84	88	92	96		FOG	FOG
11/13	.0	.0	.0	.3	2	.0	.3
9/10	.0	.0	.3	.3	16	.0	1.5
7/8	.0	.0	.2	.3	41	.3	3.0
6	.0	.0	.2	1.2	17	.0	.0
5	.0	.0	.5	1.4	26	.0	3.0
4	.0	.0	1.1	3.5	40	.2	5.1
3	.0	.0	2.4	6.8	63	.3	8.9
2	.0	.0	4.2	7.4	77	.2	11.4
1	.0	.0	5.6	4.8	73	.0	10.7
0	.0	.3	9.6	4.2	73	.3	14.0
-1	.0	.3	9.2	2.6	81	.0	12.2
-2	.0	.3	7.7	2.3	68	.2	10.1
-3	.2	1.1	2.7	.0	25	.0	3.9
-4	.0	.3	2.7	.0	20	.0	3.0
-5	.0	.6	.9	.0	10	.0	1.5
-6	.0	.0	.2	.2	2	.0	.3
7/-8	.0	.3	.6	.0	6	.0	.9
TOTAL	1	23	316	233	665	9	610
PCT	.2	3.5	47.5	35.0	100.0	1.4	91.7

PERIOD: (PRIMARY)  
(OVERALL) 1963-1970

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TABLE 18

AREA 0023 N. E. PERSIAN GULF  
27.3N 51.6E

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N										NE										PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.8	.0	.0	.0	.0	1.8	.5	1.6	.0	.0	.0	.0	2.2	.5	1.6	.0	.0	.0	.0	2.2
1-2	.0	3.2	1.2	.0	.0	.0	4.4	.5	1.9	.0	.0	.0	.0	2.5	.5	.0	.0	.0	.0	.0	2.5
3-4	.0	.5	.0	.0	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	5.5	1.2	.0	.0	.0	6.7	1.1	3.6	.0	.0	.0	.0	4.7	.0	.0	.0	.0	.0	.0	4.7

HGT	E										SE										PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.5	1.6	.0	.0	.0	.0	2.2	1.2	3.6	.0	.0	.0	.0	4.8	.5	3.6	.0	.0	.0	.0	4.8
1-2	.5	2.1	.0	.0	.0	.0	2.6	.5	2.7	.7	.0	.0	.0	4.0	.5	.0	.0	.0	.0	.0	4.0
3-4	.0	.5	.0	.0	.0	.0	.5	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.1	4.3	.0	.0	.0	.0	5.4	1.8	6.3	1.2	.0	.0	.0	9.3	.0	.0	.0	.0	.0	.0	9.3

PERIOD: (PRIMARY)  
(OVER-ALL) 1963-1970

AUGUST  
TABLE 18

AREA 0023 N. E. PERSIAN GULF  
27.3N 51.6E

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S					SM					PCT		
	1-3	4-10	11-21	22-33	34-47	48+	1-3	4-10	11-21	22-33		34-47	48+
<1	1.5	2.5	1.0	.0	.0	.0	.5	2.5	.0	.0	.0	.0	3.0
1-2	.0	2.2	1.0	.0	.0	.0	.0	1.4	.5	.0	.0	.0	1.9
3-4	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-15	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-50	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.5	5.1	1.0	.0	.0	.0	.5	4.7	.5	.0	.0	.0	5.8

HGT	M					NM					PCT		
	1-3	4-10	11-21	22-33	34-47	48+	1-3	4-10	11-21	22-33		34-47	48+
<1	1.6	1.8	.0	.0	.0	.0	2.2	4.7	.0	.0	.0	.0	6.9
1-2	.0	7.8	1.5	.0	.0	.0	1.1	15.0	3.2	.0	.0	.0	19.2
3-4	.0	3.0	1.5	.0	.0	.0	.0	1.8	11.1	.0	.0	.0	12.9
5-6	.0	.0	.0	.0	.0	.0	.0	.0	1.6	.5	.0	.0	2.2
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.6	15.7	2.1	.0	.0	.0	3.3	21.4	15.9	.5	.0	.0	41.2

PERIOD: (PRIMARY)  
(OVER-ALL) 1963-1970

AUGUST

AREA 0023 N. E. PERSIAN GULF  
27.3N 51.6E

TABLE 18 (CONT)

HGT	WIND SPEED (KTS) VS SEA HEIGHT (FT)							TOT OBS
	0-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	13.9	19.4	.0	.0	.0	.0	43.2	222
1-2	2.3	20.2	5.9	.0	.0	.0	38.3	
3-4	.0	5.9	10.8	.0	.0	.0	16.7	
5-6	.0	.0	1.4	.5	.0	.0	1.8	
7	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-50	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	26.1	55.4	18.0	.5	.0	.0	100.0	

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+ TOTAL	MEAN NGT	
<6	13.3	28.0	14.7	1.0	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	277	2
6-7	.2	.2	2.7	1.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	21	3
8-9	.0	.4	.6	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6	3
10-11	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	2
12-13	.0	.0	.0	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	.1
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	0
INDET	29.8	5.2	1.2	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	176	0
TOTAL	209	164	93	11	3	1	0	2	0	0	0	0	0	0	0	0	0	0	0	483	1
PCT	43.3	34.0	19.3	2.3	.6	.2	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

SEPTEMBER

PERIOD: (PRIMARY) 1936-1970  
(OVER-ALL) 1865-1970

AREA 0023 N. E. PERSIAN GULF  
27.3N 51.7E

TABLE 1

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	RAIN	RAIN SHWR	CRZL	PRECIPITATION TYPE			HAIL	PCT FREQ PCPN AT DB TIME	TOTAL PCPN DBS	THOR LTNG	OTHER WEATHER PHENOMENA					TOTAL DBS
				CRZL	FRZG	SNOW	OTHER PCPN				PCPN	FOG	SMOKE	DUST	NO	
N	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.1	.4	.3	.3	5.9	51
NE	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.3	.0	.0	1.4	12
E	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.3	.0	.0	4.3	34
SE	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.1	.8	.1	.1	7.4	64
S	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.6	.0	.0	2.8	25
SW	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.5	.0	.0	4.0	34
W	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	1.0	.0	.0	18.7	153
NW	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	2.5	.0	.0	34.5	294
VAR	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.2	.7	.7	9.9	86
TOT DBS	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	2	24	27	674	757	157
TOT PCT	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.3	7.1	3.6	89.0	100.0	100.0

TABLE 2

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (CONT)	RAIN	RAIN SHWR	CRZL	PRECIPITATION TYPE			HAIL	PCT FREQ PCPN AT DB TIME	TOTAL PCPN DBS	THOR LTNG	OTHER WEATHER PHENOMENA					TOTAL DBS
				CRZL	FRZG	SNOW	OTHER PCPN				PCPN	FOG	SMOKE	DUST	NO	
0000	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	4.1	2.6	2.6	93.4	196
0600	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.5	8.0	2.0	2.0	89.5	200
1200	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	9.0	4.7	4.7	86.3	212
1800	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	1.0	9.9	4.2	4.2	84.9	192
TOT	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	3	62	27	708	800	800
PCT	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.4	7.8	3.4	88.5	100.0	100.0



SEPTEMBER

PERIOD: (PRIMARY) 1936-1970  
(OVER-ALL) 1965-1970

175A 0023 N. E. PERSIAN GULF  
27.34 51.7E

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)										HOUR (GMT)				
	0-3	4-10	11-21	22-33	34-47	48+	TOTAL DRS	PCT FREQ	MEAN SPD	00	03	06	09	12	15
N	1.4	2.9	2.2	.2	.0	.0	67	6.7	8.6	9.1	.0	6.9	7.9	3.8	7.5
NE	1.0	1.3	.0	.0	.0	.0	23	2.3	4.2	2.6	5.6	1.9	3.2	.2	2.0
E	.9	2.9	.2	.0	.0	.0	40	4.0	5.7	4.4	.0	9.1	1.6	1.5	2.8
SE	3.2	5.5	.6	.0	.0	.0	93	9.3	5.2	3.9	11.1	10.2	11.9	13.7	7.2
S	1.5	2.7	.3	.0	.0	.0	46	4.6	5.8	2.9	5.6	4.9	4.0	8.2	7.4
SW	1.7	2.3	.3	.1	.0	.0	44	4.4	5.4	3.9	5.6	2.8	5.2	7.3	14.8
W	4.0	12.4	2.6	.2	.0	.0	192	19.2	6.9	17.3	41.7	18.4	23.4	24.0	3.7
NW	3.9	22.1	11.0	1.3	.2	.0	386	38.6	9.3	36.1	25.0	36.9	34.9	37.0	40.7
VAR	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	10.8	523	176	18	2	0	109	10.8	.0	19.3	5.6	9.1	7.9	4.3	7.4
TOT DRS	286	176	18	18	2	0	109	10.8	6.8	203	18	198	63	236	27
TOT PCT	28.3	52.0	17.5	1.8	.2	.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					41+	TOTAL DRS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-6	7-16	17-27	28-40	00					03	06	09	12	15	18	21
N	3.3	2.7	.6	*	.0	67	6.7	8.6	8.4	8.4	7.2	4.0	4.0	4.0	7.3	
NE	2.0	.2	.0	.0	.0	23	2.3	4.2	3.0	3.0	2.2	1.0	1.0	1.0	3.1	
E	2.9	1.1	.0	.0	.0	40	4.0	5.7	4.0	4.0	7.3	1.6	1.6	1.6	8.9	
SE	7.3	2.1	.1	.0	.0	93	9.3	5.2	4.5	4.5	10.6	13.4	13.4	13.4	2.3	
S	3.1	1.3	.2	.0	.0	46	4.6	5.8	3.1	3.1	4.7	8.1	8.1	8.1	2.1	
SW	3.2	1.1	.1	.0	.0	44	4.4	5.4	4.0	4.0	3.4	3.4	3.4	3.4	16.0	
W	10.7	7.9	.6	.0	.0	192	19.2	6.9	13.2	13.2	19.6	21.9	21.9	21.9	44.6	
NW	15.0	18.9	3.8	.4	.0	386	38.6	9.3	33.2	33.2	36.2	37.4	37.4	37.4	.0	
VAR	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	10.8	523	176	18	2	109	10.8	.0	18.4	18.4	8.8	4.7	4.7	4.7	12.5	
TOT DRS	590	523	176	18	2	1005	100.0	6.8	223	223	261	257	257	257	264	
TOT PCT	58.7	51.2	5.4	.5	.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

SEPTEMBER

AREA 0613 N. E. PERSIAN GULF  
27.2N 51.7E

PERIOD: (PRIMARY) 1936-1970  
(OVER-ALL) 1865-1970

TABLE 4

HOUR	CA-M	PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GHT)					PCT FREQ	TOTAL OBS
		1-3	4-10	11-21	22-33	34-47	48+	
0000	18.4	15.7	48.4	16.1	.9	.0	6.2	100.0
0600	8.8	18.4	54.8	15.7	2.3	.0	6.8	100.0
1200	4.7	19.5	53.3	21.0	1.6	.0	7.3	100.0
1800	12.5	16.7	51.1	17.0	2.3	.4	6.8	100.0
TOT	10.9	17.7	52.3	17.6	1.8	2	6.8	100.0
PCT	10.8	17.6	52.0	17.5	1.8	.2	6.8	100.0

TABLE 5

WIND DIR	PCT FREQ OF TOTAL CLOUD AMOUNT (HEIGHTS) BY WIND DIRECTION							TOTAL OBS	MEAN CLOUD COVER
	0-2	3-4	5-7	8-10	11-20	21-30	31-40		
N	6.1	.3	.0	.0	.0	.0	.0	42	.3
NE	1.7	.2	.0	.0	.0	.0	.0	12	.3
E	3.9	.3	.2	.0	.0	.0	.0	28	.6
SE	8.6	.5	.0	.0	.0	.0	.0	60	.6
S	3.5	.1	.3	.0	.0	.0	.0	25	.8
SW	4.4	.1	.1	.0	.0	.0	.0	30	.3
W	19.0	.4	.1	.2	.0	.0	.0	135	.3
NW	36.7	.3	.3	.0	.0	.0	.0	247	.2
VAR	.0	.0	.0	.0	.0	.0	.0	0	.0
CALM	11.7	.2	.3	.0	.0	.0	.0	81	.2
TOT OBS	640	15	8	1	1	1	1	664	.3
TOT PCT	96.4	2.3	1.2	.2	.2	.2	.2	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NN > 4/3) AND OCCURRENCE OF NN < 5/8 BY WIND DIRECTION									
WIND DIR	NN < 5/8					NN < 5/8			
	000	150	300	600	900	1500	3000	6000	9000
N	.0	.0	.0	.0	.0	.0	.0	.0	.0
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0
E	.0	.0	.0	.0	.0	.0	.0	.0	.0
SE	.0	.0	.0	.0	.0	.0	.0	.0	.0
S	.0	.0	.0	.0	.0	.0	.0	.0	.0
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0
W	.0	.0	.0	.0	.0	.0	.0	.0	.0
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT OBS	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.0	.0	.0	.0	.0	.0	.0

PERIOD: (PRIMARY) 1936-1970  
(OVER-ALL) 1965-1970

SEPTEMBER

AREA 0023 N. E. PERSIAN GULF  
27.3N 51.7E

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE  
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	OR >10	OR >5	OR >2	VSBY (NM) OR >1	OR 3/2	OR 2/4	OR >50YD	OR >0
OR >6500	.1	.1	.1	.1	.1	.1	.1	.1
OR >5000	.1	.1	.1	.1	.1	.1	.1	.1
OR >3500	.1	.1	.1	.1	.1	.1	.1	.1
OR >2000	.4	.6	.6	.6	.6	.6	.6	.6
OR >1000	.4	.7	.7	.7	.7	.7	.7	.7
OR >600	.4	.7	.7	.7	.7	.7	.7	.7
OR >300	.6	.9	.9	.9	.9	.9	.9	.9
OR >150	.6	.9	.9	.9	.9	.9	.9	.9
OR >0	.6	.9	.9	.9	.9	.9	.9	.9
TOTAL	.4	.6	.6	.6	.6	.6	.6	.6

TOTAL NUMBER OF OBS: 696

PCT FREQ NH <5/8: 99.1

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	9	TOTAL
82.5	13.0	2.0	2.0	1.0	.7	.4	.1	.3	.0	.0	710

PERIOD: (PRIM.RY) 1936-1970  
(OVER-ALL) 1865-1970

SEPTEMBER

AREA 0023 N. E. PERSIAN GULF  
27.3N 51.7E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF  
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
PCP	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	
NO PCP	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT %	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	
2<5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
PCP	.3	.0	.1	.1	.0	.0	.1	1.6	.0	.3	2.5	
NO PCP	.3	.0	.1	.1	.0	.0	.1	1.6	.0	.3	2.5	
TOT %	.3	.0	.1	.1	.0	.0	.1	1.6	.0	.3	2.5	
5<10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
PCP	2.3	.4	.5	1.8	.2	1.3	2.9	5.8	.0	2.4	17.6	
NO PCP	2.3	.4	.5	1.8	.2	1.3	2.9	5.8	.0	2.4	17.6	
TOT %	2.3	.4	.5	1.8	.2	1.3	2.9	5.8	.0	2.4	17.6	
10+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
PCP	.2	1.3	3.8	6.3	2.9	3.2	17.2	30.8	.0	8.5	78.2	
NO PCP	.2	1.3	3.8	6.3	2.9	3.2	17.2	30.8	.0	8.5	78.2	
TOT %	.2	1.3	3.8	6.3	2.9	3.2	17.2	30.8	.0	8.5	78.2	
TOT OBS	6.3	1.7	4.6	8.4	3.4	4.5	20.3	38.9	.0	11.4	100.0	756

SEPTEMBER

PERIOD: (PRIMARY) 1936-1970  
(OVER-ALL) 1865-1970

AREA 0023 N.E. PERSIAN GULF  
27.3N 51.7E

TABLE 9  
PERCENT FREQ OF WIND DIRECTION VS WIND SPEED  
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPO KTS	N	NE	E	SE	S	SW	W	NW	VAE	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	
	4-10	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	
	11-21	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	
	TOT %	.0	.0	.0	.0	.2	.0	.0	.0	.0	.1	.3	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1	
	TOT %	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1	.2	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.1	.1	.1	.0	.0	.0	.0	.1	.0	.0	.3	
	11-21	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.5	
	TOT %	.1	.1	.1	.1	.0	.0	.0	.1	.0	.0	1.0	
2<5	0-3	.2	.0	.0	.1	.0	.0	.1	.0	.0	.2	.7	
	4-10	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	1.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	
	TOT %	.2	.0	.1	.1	.0	.0	.1	.0	.0	.2	2.1	
3<10	0-3	.1	.3	.3	.4	.1	.1	.0	.3	.0	2.3	4.6	
	4-10	.9	.1	.3	1.0	.2	.2	.8	3.2	.0	.0	8.0	
	11-21	1.0	.0	.0	.2	.0	.0	.8	1.8	.0	.0	3.7	
	TOT %	2.0	.4	.5	1.6	.3	1.1	3.0	5.6	.0	2.3	16.6	
10+	0-3	1.1	.8	.9	2.6	1.5	1.5	3.2	3.5	.0	8.8	23.9	
	4-10	1.9	1.2	2.3	4.1	2.1	1.4	11.3	18.2	.0	.0	42.7	
	11-21	1.4	.0	.2	.6	.2	.3	1.9	7.5	.0	.0	12.0	
	TOT %	4.5	2.0	3.6	7.3	3.7	3.3	16.5	30.1	.0	8.8	79.7	
TOT OBS		6.8	2.5	4.3	9.2	4.2	4.3	19.6	37.6	.0	11.5	100.0	888
TOT PCT													

SEPTEMBER

PERIOD: (PRIMARY) 1936-1970  
(OVER-ALL) 1865-1970

AREA 0023 N. E. PERSIAN GULF  
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TABLE 10  
PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND  
OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 145	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL CBS
00003	.0	.0	.0	.0	.0	.6	.0	.0	.0	.0	.6	99.4	171
06009	.0	.0	.6	.0	.0	.1	.0	.0	.0	.6	2.3	97.7	176
12015	.0	.0	.0	.6	.5	.0	.0	.0	.0	.0	.5	99.5	196
18021	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	157
TOT	0	0	1	0	1	3	0	0	0	1	6	704	710
PCT	.0	.0	.1	.0	.1	.4	.0	.0	.0	.1	.8	99.2	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2-1	1-2	2-3	3-4	4-5	5-10	10+	TOTAL CBS
00003	.0	.0	.0	.0	.0	.0	.0	.0	.0
06009	.0	.0	.0	.0	.0	.0	.0	.0	.0
12015	.0	.0	.0	.0	.0	.0	.0	.0	.0
18021	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT	.0	.0	.0	.0	.0	.0	.0	.0	.0
PCT	.0	.0	.0	.0	.0	.0	.0	.0	.0

TABLE 12

CUMULATIVE PCT FREO OF RANGES OF VSBY (NM) AND/OR  
CEILING HGT (FEET, NH >4/8) BY HOUR

HOUR (GMT)	<150 <5000	<600 <1000	<1 <5	1000+ AN05+	NH <5/8 AND 5+	TOTAL CBS
00003	.0	.0	.0	.0	.0	.0
06009	.0	.0	.0	.0	.0	.0
12015	.0	.0	.0	.0	.0	.0
18021	.0	.0	.0	.0	.0	.0
TOT	.0	.0	.0	.0	.0	.0
PCT	.0	.0	.0	.0	.0	.0

SEPTEMBER

PERIOD: (PRIMARY) 1936-1970  
(OVER-ALL) 1865-1970

AREA 0023 N. E. PERSIAN GULF  
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TABLE 13

TEMP F	PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP											TOTAL OBS	PCT FREQ
	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	90-100	90-100	90-100		
95/19	.0	.2	.6	1.9	3.2	1.3	.2	.2	.2	.2	.2	40	7.6
90/94	.0	.0	1.1	7.0	16.7	20.0	9.5	1.5	1.5	1.5	1.5	294	59.9
85/89	.0	.0	.0	2.9	6.8	11.8	8.7	2.3	2.3	2.3	2.3	171	32.5
80/84	.0	.0	.0	.2	.4	1.9	1.1	.4	.4	.4	.4	21	4.0
TOTAL	.0	1	9	65	143	184	103	23	23	23	23	926	100.0
PCT	.0	.2	1.7	12.0	27.2	35.0	19.6	4.4	4.4	4.4	4.4		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP										
N	NE	E	SE	S	SW	W	NW	VAR	CALM	
.0	.0	.3	.9	.0	.3	1.5	3.9	.0	.4	
3.7	1.0	3.2	6.7	2.6	2.4	12.0	18.3	.0	4.6	
2.6	1.0	1.0	2.2	.5	1.2	6.5	12.1	.0	5.5	
.3	.1	.1	.6	.2	.7	1.3	.4	.0	.4	
34	10	24	54	17	24	1.3	191	0	57	
6.6	2.0	4.6	10.3	3.2	4.6	2.5	36.3	.0	10.8	

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR										
HOUR (GMT)	MAX	99%	95%	90%	5%	1%	MIN	MEAN	TOTAL OBS	
00003	98	95	92	89	85	81	80	88.5	230	
06009	97	96	95	91	85	82	82	90.8	255	
12015	99	98	97	92	87	83	81	91.9	251	
18021	95	94	93	90	85	81	80	89.2	260	
TOT	99	97	95	90	85	82	80	90.2	996	

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR										
HOUR (GMT)	0-29	30-39	50-59	70-79	80-89	90-100	MEAN	TOTAL OBS		
00003	.0	7.8	17.1	37.2	32.6	5.4	76	129		
06009	.0	11.5	31.7	33.1	21.6	2.2	72	139		
12015	.0	25.0	37.2	30.8	5.8	1.3	67	156		
18021	.0	6.9	20.8	42.3	21.5	8.5	75	130		
TOT	0	14	151	197	109	23	72	554		

PERIOD: (PRIMARY) 1936-1970  
(OVER-ALL) 1865-1970

SEPTEMBER

AREA 0023 N. E. PERSIAN GULF  
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TABLE 17

PCT 'REQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)  
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	77	81	85	89	93	TOT	W	MO
	80	84	88	92	96	FOG	FOG	FOG
11/13	.0	.0	.0	.1	.0	1	.0	.1
9/10	.0	.0	.0	.0	.1	9	.0	.7
7/8	.0	.0	.1	.4	.6	10	.0	1.3
6	.0	.0	.0	.9	.3	12	.0	1.5
5	.0	.0	.0	.6	1.6	13	.0	2.5
4	.0	.0	.7	1.2	2.0	29	.0	4.1
3	.0	.0	.6	2.9	3.5	50	.0	7.1
2	.0	.0	1.5	4.7	3.4	71	.0	9.9
1	.0	.0	2.2	5.2	2.2	66	.0	9.6
0	.0	.3	1.7	11.8	1.3	105	.0	15.3
-1	.0	.4	3.6	8.7	.7	93	.0	13.6
-2	.0	.3	3.5	6.4	.7	75	.1	10.8
-3	.0	.7	3.6	3.8	.1	57	.0	8.3
-4	.1	.3	3.2	2.5	.0	42	.1	6.0
-5	.1	.7	1.9	.9	.0	25	.1	3.5
-6	.0	.1	.6	.0	.0	5	.0	.7
-7/-8	.1	.3	1.0	.3	.0	12	.0	1.7
-9/-10	.0	.3	.3	.0	.0	4	.0	.6
-11/-13	.0	.0	.1	.0	.0	1	.0	.1
TOTAL	3	24	170	346	115	686	3	669
PCT	.4	3.5	24.8	50.4	16.5	100.0	.4	97.5



SEPTEMBER  
TABLE 18  
AREA 0023 N. E. PERSIAN GULF  
27.3N 51.7E

PERIOD: (PRIMARY)  
(OVER-ALL) 1963-1970

PC1 FREQ D= WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.8	2.9	.0	.0	.0	.0	3.6	1.5	.8	.0	.0	.0	.0	2.3
1-2	.0	.8	.0	.0	.0	.0	.8	.8	.0	.0	.0	.0	.0	.8
3-4	.0	.0	2.9	.0	.0	.0	2.9	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.8	3.6	2.9	.0	.0	.0	7.3	2.3	.8	.0	.0	.0	.0	3.1

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.8	.0	.0	.0	.0	.9	3.1	3.2	.0	.0	.0	.0	6.3
1-2	.0	1.3	.0	.0	.0	.0	1.3	.0	4.2	1.5	.0	.0	.0	5.7
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.8	.0	.0	.0	.8	.0	.8	.8	.0	.0	.0	1.5
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.1	.8	.0	.0	.0	2.9	3.1	8.2	2.3	.0	.0	.0	13.5

SEPTEMBER  
TABLE 18  
AREA 0023 N. E. PERSIAN GULF  
27.3N 31.7E

PERIOD: (PRIMARY)  
(OVER-ALL) 1963-1970

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (ft)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.6	1.3	.0	.0	.0	.0	1.9	1.3	3.2	.0	.0	.0	.0	4.6
1-2	.8	1.3	.0	.0	.0	.0	2.1	.0	.4	.0	.0	.0	.0	.4
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.2
5-6	.0	.0	.6	.0	.0	.0	.6	.0	.0	.2	.0	.0	.0	.2
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.3	3.4	.6	.0	.0	.0	5.3	1.3	3.8	.2	.0	.0	.0	5.3

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	2.7	4.6	.8	.0	.0	.0	8.0	.8	10.7	.0	.0	.0	.0	11.5
1-2	1.5	5.3	.6	.0	.0	.0	7.4	.0	7.3	2.5	.0	.0	.0	9.7
3-4	.0	1.3	1.3	.0	.0	.0	2.7	1.5	5.3	8.0	.0	.0	.0	14.9
5-6	.0	2.3	.0	.0	.0	.0	2.3	.0	3.1	1.5	.8	.0	.0	5.3
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	.0	.0	.0	.8
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	4.2	13.5	2.7	.0	.0	.0	20.4	2.3	26.3	12.8	.8	.0	.0	42.2

PERIOD: (PRIMARY: 1963-1970  
(OVER-ALL)

SEPTEMBER

AREA 0023 N. E. PERSIAN GULF  
27.3N 51.7E

TABLE 18 (CONT)

HGT	WIND SPEED (KTS) VS SEA HEIGHT (FT)							TOT OBS
	0-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	27.3	22.4	.6	.0	.0	.0	50.3	161
1-2	1.3	16.8	3.7	.0	.0	.0	23.0	
3-4	1.2	6.2	9.9	.0	.0	.0	17.4	
5-6	.0	5.0	3.1	.6	.0	.0	8.7	
7	.0	.0	.6	.0	.0	.0	.6	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	31.1	50.3	18.0	.6	.0	.0	100.0	

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+ TOTAL	MEAN HGT
<6	16.2	20.9	14.2	2.8	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	269
6-7	.0	1.0	2.4	3.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	34
8-9	.0	.0	.4	1.2	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	10
10-11	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1
12-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
INDET	28.6	5.1	2.0	.4	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	179
TOTAL	221	133	94	37	6	2	0	0	0	0	0	0	0	0	0	0	0	0	0	492
PCT	44.8	27.0	19.1	7.5	1.2	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0

PERIOD (PRIMARY) 1947-1970  
(OVER-ALL) 1906-1970

OCTOBER

AREA 0023 N. E. PERSIAN GULF  
27.2N 51.8E

TABLE 1  
PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	RAIN	RAIN SHWR	ORZL	PRECIPITATION TYPE			HAIL	PCT FREQ PCPN AT OB TIME	TOTAL PCPN OBS	THDR LTNG	OTHER WEATHER PHENOMENA						TOTAL OBS
				PCPN	FRZG	SNOW	OTHER FRZN PCPN				FOG	SMOKE	HAZE	BLWG	OUST	NO SIG WEA	
N	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.1	.0	7.0	79
NE	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.1	.0	.0	.0	3.0	29
E	.0	.0	.0	.0	.0	.0	.0	.0	0	.1	.0	.2	.0	.0	.0	4.5	45
SE	.0	.0	.0	.0	.0	.0	.0	.0	0	.1	.0	.3	.0	.0	.0	5.7	57
S	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.2	.0	.1	.0	4.4	43
SW	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.1	.0	*	.0	3.0	36
W	.0	.0	.0	.0	.0	.0	.0	.0	0	.1	.0	.7	.0	.1	.0	18.2	178
NW	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.8	.0	1.5	.0	35.7	353
VAR	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.1	.5	.0	.2	.0	11.1	112
TOT OBS	0	0	0	0	0	0	0	0	0	3	1	33	1	16	882	935	935
TOT PCT	.0	.0	.0	.0	.0	.0	.0	.0	0	.3	.1	3.5	.1	1.7	94.3	100.0	100.0

TABLE 2  
PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	RAIN	RAIN SHWR	DRZL	PRECIPITATION TYPE			HAIL	PCT FREQ PCPN AT OB TIME	TOTAL PCPN OBS	THDR LTNG	OTHER WEATHER PHENOMENA						TOTAL OBS
				PCPN	FRZG	SNOW	OTHER FRZN PCPN				FOG	SMOKE	HAZE	BLWG	OUST	NO SIG WEA	
00003	.0	.0	.0	.0	.0	.0	.0	.0	0	.9	.0	3.0	.0	2.6	.0	93.6	235
0609	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.4	4.3	.0	1.2	.0	94.2	257
1215	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	3.9	.0	1.4	.0	94.7	283
1821	.0	.0	.0	.0	.0	.0	.0	.0	0	.4	.0	2.5	.0	1.3	.0	95.8	240
TOT	0	0	0	0	0	0	0	0	0	3	1	33	1	16	960	1015	1015
PCT	.0	.0	.0	.0	.0	.0	.0	.0	0	.3	.1	3.4	.1	1.6	94.6	100.0	100.0

OCTOBER

PERIOD: (PRIMARY) 1947-1970  
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TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)										HOUR (GMT)					
	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18 21
N	1.8	5.7	2.1	.1	.0	.0	109	9.5	8.0	9.6	8.7	12.0	20.8	5.8	.0	9.4 13.9
NE	1.4	2.0	.7	.0	.0	.0	34	3.1	7.5	4.5	6.5	5.8	1.4	.9	2.5	2.0 1.4
E	1.4	3.4	.2	.0	.0	.0	54	5.0	5.3	4.9	10.9	6.1	7.5	3.1	2.5	5.0 5.6
SE	1.7	4.9	.5	.0	.0	.0	78	7.1	6.2	6.4	13.0	7.4	10.4	7.2	15.0	5.4 8.3
S	1.8	2.2	.7	.0	.0	.0	51	4.7	5.9	3.8	4.3	4.5	2.8	6.7	15.0	3.0 4.2
SW	1.0	2.4	.1	.0	.0	.0	39	3.5	5.3	.8	2.2	3.7	1.9	5.7	.0	4.0 5.6
W	1.9	12.3	.2	.2	.0	.0	197	17.9	7.4	15.9	20.7	12.3	13.2	23.6	37.5	19.6 6.9
NW	4.3	21.3	10.9	1.4	.0	.0	418	37.9	9.4	36.5	29.3	34.4	36.3	41.9	27.5	39.0 45.8
VAR	.0	.0	.0	.0	.0	.0	0	11.1	.0	17.5	4.3	13.7	5.7	5.1	.0	12.8 8.3
CALM	11.1	597	195	19	0	0	123	11.1	7.1	228	23	241	53	276	20	227 36
TOT OBS	293	54.1	17.7	1.7	.0	.0	1104	100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0 100.0
TOT PCT	26.5															

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					41+	TOTAL OBS	PCT FREQ		MEAN SPD	HOUR (GMT)					
	0-6	7-16	17-27	28-40				00	03		06	09	12	15	18	21
N	4.7	4.2	.7	.0	.0	.0	106	9.6	8.0	8.0	13.6	5.4	10.0			
NE	1.7	1.2	.2	.0	.0	.0	34	3.1	7.5	7.5	5.0	1.0	1.9			
E	3.4	1.5	.0	.0	.0	.0	54	5.0	5.3	5.3	6.4	3.0	5.0			
SE	4.3	2.6	.2	.0	.0	.0	78	7.1	6.2	6.2	7.9	7.7	5.6			
S	3.0	1.6	.1	.0	.0	.0	51	4.7	5.9	5.9	4.2	7.3	3.1			
SW	2.5	.9	.1	.0	.0	.0	39	3.5	5.3	5.3	3.4	5.3	4.2			
W	8.7	8.7	.5	.0	.0	.0	197	17.9	7.4	7.4	12.5	24.6	17.9			
NW	14.7	19.2	3.7	.3	.0	.0	418	37.9	9.4	9.4	34.8	41.0	39.9			
VAR	.0	.0	.0	.0	.0	.0	0	11.1	.0	.0	.0	.0	.0			
CALM	11.1	441	61	3	0	0	123	11.1	7.1	7.1	12.2	4.7	12.2			
TOT OBS	599	39.9	5.5	.3	.0	.0	1104	100.0			251	294	283			
TOT PCT	54.3							100.0			100.0	100.0	100.0	100.0		

## OCTOBER

PERIOD: (PRIMARY) 1947-1970  
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27.2N 51.8E

TABLE 4

## PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47	48+				
0000	16.3	14.3	50.2	17.4	2.0	.0	.0	.0	6.9	100.0	251
0600	12.2	14.9	54.4	18.4	1.0	.0	.0	.0	6.8	100.0	294
1200	4.7	16.6	58.8	17.9	2.0	.0	.0	.0	7.6	100.0	296
1800	12.2	16.7	52.1	17.1	1.9	.0	.0	.0	6.9	100.0	263
TOT	123	170	597	195	19	0	0	0	7.1		1104
PCT	11.1	15.4	54.1	17.7	1.7	.0	.0	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)  
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBS	TOTAL OBS	MEAN CLOUD COVER										
N	7.2	.3	.1	.0	62	.4										
NE	2.7	.1	.0	.0	23	.4										
E	5.1	.0	.1	.0	42	.5										
SE	6.2	.0	.3	.0	53	.6										
S	4.3	.2	.4	.0	40	1.1										
SW	4.0	.0	.0	.0	32	.4										
NW	16.0	1.2	.6	.0	162	.6										
VAR	33.2	1.7	1.2	.0	294	.5										
CALM	.0	.0	.0	.0	0	.0										
TOT OBS	11.9	.6	.4	.0	105	.4										
TOT PCT	756	34	26	.0	816	.5										
	92.6	4.2	3.2	.0	100.0											

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT) NH >4/5  
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WIND DIR	000	149	150	299	300	599	600	999	1000	2000	3499	4999	5000	6499	7999	8000+	NH <5/8	ANY HGT	TOTAL OBS
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	62
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	23
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	42
SE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	53
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	40
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	32
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	162
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	294
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
TOT OBS	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	105
TOT PCT	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	816
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0

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AREA 0025 N. E. PERSIAN GULF  
27.2N 51.8E

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE  
OF CEILING HEIGHT (NH > 4/8) AND VSBY (NM)

CEILING (FEET)	= OR		= OR		= OR		= OR		= OR		CR
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0			
= OR >6500	.5	.5	.5	.5	.5	.5	.5	.5	.5	.5	
= OR >5000	.5	.5	.5	.5	.5	.5	.5	.5	.5	.5	
= OR >3500	.6	.6	.6	.6	.6	.6	.6	.6	.6	.6	
= OR >2000	.8	.9	.9	.9	.9	.9	.9	.9	.9	.9	
= OR >1000	1.4	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	
= OR >800	1.4	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	
= OR >600	1.4	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	
= OR >400	1.4	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	
= OR >200	1.4	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	
= OR >150	1.4	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	
= OR >0	1.4	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	
= TOTAL	1.2	1.3	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	

TOTAL NUMBER OF OBS: 882

PCT FREQ NH <5/8: 98.5

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	9	TOTAL
											OBS
	78.9	15.8	2.1	1.1	.7	1.0	.4	.0	.0	.0	910

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PERIOD: (PRIMARY) 1947-1970  
(OVER-ALL) 1906-1970

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF  
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
<1/2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
2<5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
5<10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT OBS	8.5	3.1	4.6	6.1	4.7	3.9	19.1	37.8	.0	12.0	100.0	935
TOT PCT												



PERIOD: (PRIMARY) 1947-1970  
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TABLE 5

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED  
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5<10	0-3	.3	.0	.0	.2	.2	.1	.2	.5	.0	.9	2.5
	4-10	.5	.1	.3	.8	.1	.2	1.3	3.0	.0	.0	6.2
	11-21	.2	.1	.0	.3	.1	.0	.3	1.7	.0	.0	2.7
	22+	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1
	TOT %	1.0	.2	.3	1.3	.4	.3	1.8	5.3	.0	.9	11.5
10+	0-3	1.6	.4	1.5	1.2	1.5	.9	2.5	3.8	.0	10.4	23.1
	4-10	5.2	2.0	3.1	4.1	1.8	2.7	11.3	18.6	.0	.0	48.4
	11-21	1.7	.6	.2	.4	.5	.1	2.4	8.4	.0	.0	14.0
	22+	1.1	.0	.0	.0	.0	.0	.2	1.3	.0	.0	1.5
	TOT %	8.5	3.0	4.8	5.3	3.8	3.6	16.3	32.1	.0	10.4	67.6
TOT OBS												1059
TOT PCT		9.6	3.2	5.0	5.8	4.3	3.6	18.2	37.9	.0	11.3	100.0

PERIOD: (PRIMARY) 1947-1970  
(OVER-ALL) 1906-1970

OCTOBER

AREA 0022 N. E. PERSIAN GULF  
27.2N 51.8E

TABLE 10  
PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH > 4/8) AND  
OCCURRENCE OF NH < 5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 399	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH < 5/8 ANY HGT	TOTAL OBS
00Z03	.0	.0	.0	.0	.5	.0	.0	.0	.0	.0	.5	99.5	216
06Z09	.0	.0	.0	.0	1.4	.0	.0	.0	.0	.0	1.4	98.6	222
12Z15	.0	.0	.0	.0	.4	.4	.4	.0	.4	.8	2.3	97.7	256
18Z21	.0	.0	.0	.0	.0	.9	.0	.0	.0	.5	1.4	98.6	216
TOT PCT	.0 .0	.0 .0	.0 .0	.0 .0	.5 .5	.3 .2	.1 .1	.0 .0	.1 .1	.3 .3	1.3 1.4	837 98.6	910 100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2-1	1-2	2-5	5-10	10+	TOTAL OBS
00Z03	.0	.0	.0	.5	8.1	91.4	209
06Z09	.0	.0	.0	.5	5.5	94.0	218
12Z15	.0	.0	.4	.4	7.3	91.9	248
18Z21	.0	.0	.0	.5	5.3	94.2	207
TOT PCT	.0 .0	.0 .0	.1 .1	.4 .5	58 6.6	819 92.9	882 100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR  
CEILING HGT (FEET, NH > 4/8), BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ ANOS+	NH < 5/8 AND 5+	TOTAL OBS
00Z03	.0	.0	.5	.5	99.0	209
06Z09	.0	.0	.5	1.4	98.2	218
12Z15	.0	.0	.8	2.4	96.8	249
18Z21	.0	.0	.5	1.4	98.1	207
TOT PCT	.0 .0	.0 .0	.5 .6	.5 1.5	864 98.0	882 100.0

OCT082R

PERIOD: (PRIMARY) 1947-1970  
(OVER-ALL) 1906-1970

AREA 0023 N. E. PERSIAN GULF  
27.2N 51.8E

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP		TOTAL DBS					PCT FREQ	
TEMP F		0-29	30-39	40-49	50-59	60-69	70-79	80-89
95/99	.0	.0	.0	.0	.0	.0	.0	.0
90/94	.0	.0	.0	.0	.0	.0	.0	.0
85/89	.0	.0	.0	.0	.0	.0	.0	.0
80/84	.0	.0	.0	.0	.0	.0	.0	.0
75/79	.0	.0	.0	.0	.0	.0	.0	.0
70/74	.0	.0	.0	.0	.0	.0	.0	.0
TOTAL	.0	.0	.0	.0	.0	.0	.0	.0
PCT	.0	.0	.0	.0	.0	.0	.0	.0

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP		TOTAL DBS							
TEMP F		0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100
95/99	.0	.0	.0	.0	.0	.0	.0	.0	.0
90/94	.0	.0	.0	.0	.0	.0	.0	.0	.0
85/89	.0	.0	.0	.0	.0	.0	.0	.0	.0
80/84	.0	.0	.0	.0	.0	.0	.0	.0	.0
75/79	.0	.0	.0	.0	.0	.0	.0	.0	.0
70/74	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOTAL	.0	.0	.0	.0	.0	.0	.0	.0	.0
PCT	.0	.0	.0	.0	.0	.0	.0	.0	.0

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR		TOTAL DBS									
HOUR (GMT)		MAX	95%	90%	85%	80%	75%	70%	65%	60%	55%
0003	91	90	88	84	80	77	74	71	68	65	62
0609	95	94	92	87	82	77	74	71	68	65	62
1215	96	95	93	88	82	79	76	73	70	67	64
1821	92	91	89	85	80	79	78	76	74	72	70
TOT	96	94	92	86	80	78	74	71	68	65	62

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR		TOTAL DBS									
HOUR (GMT)		0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL
0003	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
0609	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1215	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1821	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0

PERIOD: (PRIMARY) 1947-1970  
(OVER-ALL) 1906-1970

OCTOBER

AREA 0023 N. E. PERSIAN GULF  
27.2N 51.8E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (HOUR PRECIPITATION)  
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	73	77	81	85	89	93	TOT	W FOG	NO FOG
11/13	.0	.0	.0	.2	.0	.1	3	.0	.3
9/10	.0	.0	.2	.1	.1	.0	4	.0	.5
7/8	.0	.1	.1	.1	.2	.8	12	.0	1.4
6	.0	.1	.0	.2	.2	.1	6	.0	.7
5	.0	.0	.3	.2	1.1	.6	20	.0	2.3
4	.0	.3	.2	1.0	2.0	1.0	41	.1	4.5
3	.0	.2	.1	1.1	1.7	.7	34	.0	3.9
2	.0	.1	.9	3.2	4.7	.5	82	.0	9.3
1	.0	.0	1.9	4.9	2.2	.1	89	.0	10.1
0	.0	.3	2.5	8.3	2.8	.1	125	.0	14.2
-1	.2	.3	2.0	6.7	1.7	.1	97	.0	11.0
-2	.1	.8	3.8	6.6	1.1	.1	110	.0	12.5
-3	.0	.6	4.7	4.5	.2	.0	88	.0	10.0
-4	.1	.7	3.0	3.4	.0	.0	63	.0	7.2
-5	.0	.3	2.3	2.5	.0	.0	45	.0	5.1
-6	.0	.3	2.3	1.0	.0	.0	32	.0	3.6
-7/-8	.0	.2	1.9	.1	.0	.0	20	.0	2.3
-9/-10	.0	.2	.5	.0	.0	.0	6	.0	.7
-11/-13	.0	.3	.0	.0	.0	.0	3	.0	.3
TOTAL	1.47	2.35	3.90	16.9	3.7	4.2	880	1.1	87.9
PCT	.2	5.3	26.7	44.3	19.2	4.2	100.0	.1	99.9

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.9	.0	.0	.0	.0	.9	.1	1.2	.0	.0	.0	.0	1.4
1-2	.0	2.6	.0	.0	.0	.0	2.6	.0	.5	.0	.0	.0	.0	.5
3-4	.5	1.6	1.8	.0	.0	.0	3.9	.0	.0	2.2	.0	.0	.0	2.2
5-6	.0	.0	.4	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	5.1	2.2	.0	.0	.0	7.8	.1	1.8	2.2	.0	.0	.0	4.1

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	2.0	.0	.0	.0	.0	2.4	.5	1.2	.0	.0	.0	.0	1.8
1-2	.0	2.2	.0	.0	.0	.0	2.2	1.6	2.8	.0	.0	.0	.0	4.3
3-4	.0	1.4	.5	.0	.0	.0	1.9	.0	.0	.0	.0	.0	.0	.8
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	5.5	.5	.0	.0	.0	6.5	2.5	4.5	.1	.0	.0	.0	7.2

PERIOD: (PRIMARY: 1963-1970) OCTOBER AREA OC23 N, E. PERSIAN GULF  
(OVER-ALL: 27.2N 51.0E)

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S					SW					PCT		
	1-3	4-10	11-21	22-33	34-47	48+	1-3	4-10	11-21	22-33		34-47	48+
<1	2.6	.9	.0	.0	.0	.0	.7	2.6	.0	.0	.0	.0	3.2
1-2	.5	2.0	1.1	.0	.0	.0	.0	1.2	.0	.0	.0	.0	1.2
3-4	.0	.9	1.6	.0	.0	.0	.0	1.2	.0	.0	.0	.0	.0
5-6	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT	3.1	3.9	3.1	.0	.0	.0	.7	5.0	.0	.0	.0	.0	5.7

HGT	W					NW					PCT		
	1-3	4-10	11-21	22-33	34-47	48+	1-3	4-10	11-21	22-33		34-47	48+
<1	2.4	3.9	.0	.0	.0	.0	1.9	2.8	.0	.0	.0	.0	4.7
1-2	1.1	5.8	.5	.0	.0	.0	2.2	10.4	2.7	.0	.0	.0	15.3
3-4	.0	2.2	3.0	.0	.0	.0	.0	4.3	9.3	.0	.0	.0	13.6
5-6	.0	.0	.4	.0	.0	.0	.0	.5	3.5	.0	.0	.0	4.1
7	.0	.0	.0	.0	.0	.0	.0	.0	1.1	.5	.0	.0	1.6
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	3.5	11.9	3.9	.0	.0	.0	4.1	18.1	16.6	.5	.0	.0	39.3

PERIOD: (PRIMARY)  
(OVER-ALL) 1963-1970

OCTOBER

AREA 0023 N. E. PERSIAN GULF  
27.2N 51.2E

TABLE 18 (CONT)

HGT	WIND SPEED (KTS) VS SEA HEIGHT (FT)							TOT OBS
	0-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	24.3	12.8	.0	.0	.0	.0	37.2	226
1-2	5.3	22.6	3.3	.0	.0	.0	31.4	
3-4	.0	10.2	15.0	.0	.0	.0	25.7	
5-6	.0	.4	4.0	.0	.0	.0	4.4	
7	.0	.0	.0	.4	.0	.0	1.3	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	30.1	46.0	23.5	.4	.0	.0	100.0	

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+ TOTAL	MEAN HGT	
<6	11.7	27.7	15.3	2.6	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	380	2
6-7	.0	1.1	3.0	1.8	.6	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	45	4
8-9	.0	.5	.3	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7	3
10-11	.0	.2	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	5
12-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
INDET	26.4	4.4	2.9	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	223	1
TOTAL	251	222	142	52	9	2	0	0	0	0	0	0	0	0	0	0	0	0	0	658	2
PCT	38.1	33.7	2.6	4.9	1.4	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1939-1970  
(OVER-ALL) 1905-1970

NOVEMBER

AREA 0023 N. E. PERSIAN GULF  
37.1N 51.9E

TABLE 1  
PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	RAIN	RAIN SHWR	ORZL	PRECIPITATION TYPE			HAIL	PCT PREO PCPN AT 08 TIME	TOTAL PCPN OBS	THDR LTNG	OTHER WEATHER PHENOMENA					TOTAL OBS
				FRZG PCPN	SNOW PCPN	OTHER PCPN					FG	SMOKE	HAZE	BLWG	DUST SIG	
N	.0	.0	.0	.0	.0	.0	.0	.0	0	.2	.0	.1	.1	.1	14.2	111
NE	.0	.1	.0	.0	.0	.0	.1	.5	2	.3	.0	.1	.0	.0	3.8	39
E	.2	.0	.0	.0	.0	.0	.0	.2	1	.5	.1	.0	.0	.0	9.1	75
SE	.3	.1	.1	.0	.0	.0	.0	.6	4	.1	.0	.1	.1	.0	8.9	74
S	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	2.9	22
SH	.0	.0	.1	.0	.0	.0	.0	.1	1	.1	.0	.0	.0	.0	2.8	22
H	.0	.1	.0	.0	.0	.0	.0	.1	1	.1	.0	.0	.0	.0	11.1	86
NW	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.1	.5	.0	.0	33.9	203
VAR	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
CALM	.1	.0	.0	.0	.0	.0	.1	.3	2	.0	.0	.0	.1	.0	8.9	71
TOT OBS	.5	.3	.2	.0	.0	.0	.2	1.0	12	.9	.3	.8	.2	.2	72.9	761
TOT PCT	.7	.4	.3	.0	.0	.0	.3			1.2		1.1		.3	95.8	100.0

TABLE 2  
PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	RAIN	RAIN SHWR	DRZL	PRECIPITATION TYPE			HAIL	PCT PREO PCPN AT 08 TIME	TOTAL PCPN OBS	THDR LTNG	OTHER WEATHER PHENOMENA					TOTAL OBS
				FRZG PCPN	SNOW PCPN	OTHER PCPN					FG	SMOKE	HAZE	BLWG	DUST SIG	
0003	1.6	.5	.5	.0	.0	.0	.5	3.2	6	2.1	.0	1.6	.0	.0	93.6	188
0609	1.0	.0	.5	.0	.0	.0	.0	1.5	3	.0	.5	.5	.0	.0	97.5	198
1215	.0	.9	.0	.0	.0	.0	.0	.9	2	.0	.0	.0	.9	.0	96.4	221
1821	.0	.0	.0	.0	.0	.0	.5	.5	1	1.5	.5	1.0	.0	.0	96.5	198
TOT	.5	.3	.2	.0	.0	.0	.3	1.5	12	.9	.3	.8	.2	.2	77.3	805
PCT	.6	.4	.2	.0	.0	.0	.3			1.1		1.0		.2	96.0	100.0



NOVEMBER

AREA 0022 N. E. PERSIAN GULF  
27.1N 51.9E

PERIOD: (PRIMARY) 1959-1970  
(OVER-ALL) 1865-1970

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+				00	03	06	09	12	15	18	21
N	1.5	7.2	4.5	.3	.0	.0	130	14.1	5.1	18.7	14.1	15.3	9.3	12.7	10.6	12.1	12.0
NE	1.0	4.0	1.7	.1	.0	.0	44	4.8	6.8	7.0	28.1	5.6	.0	3.1	6.1	2.6	5.3
E	1.2	6.1	1.9	.1	.0	.0	85	9.4	7.9	10.8	15.6	12.6	8.1	8.1	7.6	7.5	4.3
SE	1.0	6.1	2.5	.1	.0	.0	89	9.7	8.4	10.1	6.3	9.5	11.6	8.4	10.6	9.2	15.2
S	1.4	1.3	.4	.0	.0	.0	28	3.1	5.3	1.1	.0	3.0	11.6	4.0	.0	3.0	3.3
SW	.9	2.4	.1	.0	.0	.0	30	3.3	5.5	1.5	6.3	2.6	4.7	4.2	3.0	3.3	6.5
W	2.1	6.9	2.7	.3	.0	.0	110	12.0	8.1	5.5	.0	10.5	16.3	15.6	22.7	13.3	14.1
NW	2.3	16.8	13.2	2.4	.0	.0	321	34.8	11.0	32.2	29.7	32.8	36.0	38.6	33.3	37.4	27.2
VAR	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	8.8	240	31	.0	.0	.0	81	8.8	.0	13.1	.0	8.3	2.3	5.3	6.1	11.4	10.4
TOT OBS	188	464	260	34	.0	.0	923	100.0	8.3	163	16	13	43	225	33	114	46
TOT PCT	20.4	50.5	26.0	3.4	.0	.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-6	7-16	17-27	28-40	41+				00	03	06	09	12	15	18
N	5.6	7.2	1.3	.0	.0	130	14.1	9.1	18.3	14.2	12.4	12.4	12.3		
NE	3.1	1.4	.1	.0	.0	44	4.8	6.6	11.2	4.6	3.5	3.5	3.2		
E	4.3	4.6	.5	.0	.0	86	9.4	7.9	9.8	11.8	8.0	8.0	6.8		
SE	4.3	4.8	.6	.0	.0	89	9.7	8.4	1.0	9.9	8.7	10.4	10.4		
S	2.4	.6	.2	.0	.0	28	3.1	5.3	1.9	4.6	3.5	3.0	3.0		
SW	2.4	.8	.1	.0	.0	30	3.3	5.5	3.0	3.0	4.1	4.1	4.1		
W	5.7	5.5	.8	.0	.0	110	12.0	6.1	5.0	11.5	16.5	13.5	13.5		
NW	10.2	17.9	6.2	.4	.0	321	34.8	11.0	32.0	33.4	37.9	35.3	35.3		
VAR	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0		
CALM	8.8	395	90	5	.0	81	8.8	.0	12.1	7.2	5.4	11.3	11.3		
TOT OBS	433	428	98	5	.0	923	100.0	8.3	199	236	254	230	230		
TOT PCT	46.9	42.8	9.8	.5	.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0		

# NOVEMBER

PERIOD: (PRIMARY) 1939-1970  
(OVER-ALL) 1865-1970

AREA 0023 N. E. PERSIAN GULF  
27.1N 51.9E

TABLE 4

## PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	WIND SPEED (KNOTS)					48+	PCT		TOTAL OBS
			4-10	11-21	22-33	34-47	48+		MEAN	FREQ	
0003	12.1	12.1	48.2	26.1	1.5	.0	.0	.0	7.8	100.0	199
0609	7.2	13.6	50.8	24.2	4.2	.0	.0	.0	8.2	100.0	236
1215	5.4	9.2	51.6	29.8	3.9	.0	.0	.0	9.2	100.0	238
1821	11.1	11.7	50.0	23.5	3.5	.0	.0	.0	7.9	100.0	230
TOT	81	137	464	240	31	0	0	0	8.3		923
PCT	8.6	11.6	50.3	26.0	3.4	.0	.0	.0		100.0	

TABLE 5

## PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8-10	OBSCD	TOTAL OBS	MEAN CLOUD COVER	
N	11.1	1.0	1.4	.3	.3	89	1.2	
NE	3.6	.0	.6	.1	.1	27	1.2	
E	6.8	1.1	1.6	.3	.3	63	1.9	
SE	6.2	.9	1.7	.6	.6	61	2.4	
S	2.0	.6	.2	.1	.1	18	1.9	
SW	2.1	.2	.3	.0	.0	16	1.4	
W	9.6	.4	.7	.0	.0	69	.9	
NW	31.8	2.2	2.3	.2	.2	236	.9	
VCR	.0	.0	.0	.0	.0	0	.0	
CALM	8.3	1.4	.3	.0	.0	68	.8	
TOT OBS	528	51	59	10	10	688	1.2	
TOT PCT	81.5	7.9	9.1	1.5	1.5	100.0		

TABLE 6

## PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT) NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WIND DIR	000	149	150	299	300	599	600	999	1000	2000	3499	3500	4999	5000	6499	7999	8900+	NH <5/8	ANY HGT	TOTAL OBS
N	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.0	.1	13.4	.0	89
NE	.0	.0	.0	.0	.0	.0	.2	.1	.1	.2	.0	.0	.0	.0	.0	.0	.1	3.7	.0	27
E	.0	.0	.0	.0	.0	.0	.1	.1	.5	.1	.1	.0	.0	.2	.0	.0	.0	8.9	.0	63
SE	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	.2	.0	.0	.2	.0	.0	.2	8.9	.0	61
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	2.7	.0	18
SW	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.4	.0	16
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.3	.0	.0	.0	.0	.1	10.2	.0	69
NW	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	.2	.0	.0	.0	.0	.0	.2	35.4	.0	236
VCR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	9.9	.0	68
TOT OBS	.0	.0	.0	.0	.0	.0	.3	.3	.9	.3	.3	.4	.6	.2	.3	.3	.4	95.7	.6	688
TOT PCT	.0	.0	.0	.0	.0	.0	.5	.5	1.4	.3	.3	.6	.6	.3	.3	.3	.6	95.7	.6	100.0

PERIOD: (PRIMARY) 1939-1970  
(OVER-ALL) 1865-1970

NOVEMBER

AREA 0023 N. E. PERSIAN GULF  
27.1N 51.9E

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE  
OF CEILING HEIGHT (NH > 4/8) AND VSBY (NH)

CEILING (FEET)	DR >10	DR >5	DR >2	DR >1	DR >1/2	DR >1/4	DR >50YD	CR >0
DR >6500	.9	.9	1.0	1.0	1.0	1.0	1.0	1.0
DR >5000	1.2	1.2	1.3	1.3	1.3	1.3	1.3	1.3
DR >3500	1.9	1.9	2.0	2.0	2.0	2.0	2.0	2.0
DR >2000	2.2	2.2	2.5	2.5	2.5	2.5	2.5	2.5
DR >1000	3.5	3.5	3.8	3.8	3.8	3.8	3.8	3.8
DR >600	3.9	3.9	4.2	4.2	4.2	4.2	4.2	4.2
DR >300	3.9	3.9	4.2	4.2	4.2	4.2	4.2	4.2
DR >150	3.9	3.9	4.2	4.2	4.2	4.2	4.2	4.2
DR >0	3.9	3.9	4.2	4.2	4.2	4.2	4.2	4.2
TOTAL	27	27	29	29	29	29	29	29

TOTAL NUMBER OF OBS: 685

PCT FREQ NH <5/8: 93.8

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	9	TOTAL
65.2	19.2	5.7	3.2	1.3	1.3	1.7	1.5	1.7	.6	.0	718

NOVEMBER

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF  
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

USBY (NM)	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL DBS
PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
<1/2 NO PCP	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	
TOT %	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	
1/2<1 NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT %	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.1	
1<2 PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
NO PCP	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.1	
TOT %	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.1	
2<5 PCP	.0	.3	.0	.1	.0	.0	.1	.0	.0	.0	.5	
NO PCP	.1	.2	.1	.1	.0	.0	.0	.7	.0	.0	1.2	
TOT %	.1	.5	.1	.3	.0	.0	.1	.7	.0	.0	1.7	
5<10 PCP	.0	.0	.1	.4	.0	.0	.0	.0	.0	.0	.5	
NO PCP	2.2	.3	.6	.8	.1	.4	1.0	3.1	.0	.1	8.7	
TOT %	2.2	.3	.7	1.2	.1	.4	1.0	3.1	.0	.1	9.2	
10+ PCP	.0	.1	.1	.0	.0	.1	.0	.0	.0	.3	.7	
NO PCP	11.3	3.5	8.7	8.2	2.8	2.4	10.2	30.9	.0	8.9	80.0	
TOT %	11.3	3.6	8.9	8.2	2.8	2.6	10.2	30.9	.0	9.2	80.7	
TOT DBS	14.6	4.4	9.9	9.8	2.9	3.0	11.4	34.7	.0	9.3	100.0	761

PERIOD: (PRIMARY) 1939-1970  
(OVER-ALL) 1865-1970

NOVEMBER

AREA 0020 N. E. PERSIAN GULF  
27.1N 51.9E

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED  
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	.1
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	.1
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.1	.1
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.1	.1
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1
	22+	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.1	.1
	TOT %	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.1	.1
2<5	0-3	.0	.1	.0	.1	.0	.0	.0	.1	.0	.0	.3	.3
	4-10	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.1	.1
	11-21	.2	.2	.1	.1	.0	.0	.0	.2	.0	.0	.3	.3
	22+	.0	.0	.0	.0	.0	.0	.1	.1	.0	.0	.2	.2
	TOT %	.2	.4	.2	.2	.0	.0	.1	.6	.0	.0	1.7	1.7
5<10	0-3	.1	.2	.1	.1	.2	.3	.0	.2	.0	.5	1.7	1.7
	4-10	1.1	.1	.3	.7	.1	.1	.7	1.4	.0	.0	4.4	4.4
	11-21	.5	.0	.3	.4	.0	.0	.3	.9	.0	.0	2.4	2.4
	22+	.2	.0	.0	.1	.0	.0	1.0	.4	.0	.5	.7	.7
	TOT %	1.9	.3	.6	1.4	.2	.5	1.0	2.9	.0	.5	9.2	9.2
10+	0-3	1.1	.7	1.2	.8	1.3	.6	2.2	2.1	.0	8.6	18.7	18.7
	4-10	6.9	2.7	5.9	5.5	1.3	2.1	6.0	15.0	.0	.0	45.5	45.5
	11-21	3.6	.6	1.4	1.9	.5	.1	2.3	12.2	.0	.0	22.5	22.5
	22+	.1	.0	.0	.0	.0	.0	.2	1.9	.0	.0	2.1	2.1
	TOT %	11.7	4.0	8.4	8.2	3.0	2.8	10.8	31.2	.0	8.6	88.8	88.8
	TOT OBS	13.8	4.7	9.5	9.9	3.3	3.3	11.9	34.7	.0	9.0	100.0	884
	TOT PCT												

# NOVEMBER

PERIOD: (PRIMARY) 1939-1970  
(OVER-ALL) 1865-1970

AREA 0023 N. E. PERSIAN GULF  
27.1N 51.9E

TABLE 10  
PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH > 4/8) AND  
OCCURRENCE OF NH < 5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 3499	2000 3499	3000 4999	5000 6499	6500 7999	8000+	TOTAL	NH < 5/8 ANY HGT	TOTAL D85
00003	.0	.0	.0	.6	3.1	.6	1.3	.0	.0	1.3	6.9	93.1	160
06009	.0	.0	.0	1.1	1.7	.0	1.1	.0	.6	.6	5.0	95.0	181
12015	.0	.0	.0	.0	.0	1.0	.5	1.0	.5	.3	3.3	96.5	185
18021	.0	.0	.0	.0	.6	.0	.0	.0	.6	.0	1.2	98.8	188
TOT	0	0	0	3	9	3	5	3	3	4	29	679	708
PCT	.0	.0	.0	.4	1.3	.4	.7	.3	.4	.6	4.1	95.9	100.0

TABLE 11

PERCENT FREQUENCY VS8Y (NH) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL D85
00003	.0	.0	.0	2.6	5.1	92.3	156
06009	.0	.0	.6	.6	1.7	97.2	176
12015	.0	.0	.0	1.1	2.6	96.3	189
18021	.0	.4	.0	1.8	3.0	94.5	164
TOT	0	1	1	10	21	652	685
PCT	.0	.1	.1	1.5	3.1	95.2	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VS8Y (NH) AND/OR  
CEILING HGT (FEET, NH > 4/8), BY HOUR

HOUR (GMT)	<150 CEILING	<600 CEILING	<1000 CEILING	1000+ AND 5+	NH < 5/8 AND 5+	TOTAL D85
00003	.0	.0	.0	3	6.4	90.4
06009	.0	.0	.0	2.3	3.4	94.3
12015	.0	.0	.0	1.1	3.2	95.8
18021	.0	.6	.6	2.4	1.2	96.3
TOT	0	1	1	15	24	646
PCT	.0	.1	.1	2.2	3.5	94.3

# NOVEMBER

PERIOD: (PRIMARY: 1939-1970  
(OVER-ALL) 1865-1970

AREA 0029 N. 2. PERSIAN GULF  
27.1N 51.9E

TABLE 13

TEMP F	PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP										TOTAL OBS	PCT FREQ
	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100				
90/94	.0	.0	.0	.2	.9	.0	.0	.0			4	.7
85/89	.0	.0	1.7	3.8	4.8	1.7	.9	.0			73	12.6
80/84	.0	.2	3.5	11.6	14.7	6.9	2.2	.5			239	39.6
75/79	.0	.3	3.1	8.1	10.7	9.8	3.1	1.4			206	35.6
70/74	.0	.0	.9	2.6	4.3	1.7	.3	.0			67	11.6
TOTAL	.0	.3	5.3	15.2	20.3	11.1	4.4	1.3			579	100.0
PCT	.0	.5	9.2	26.3	35.1	19.2	7.7	2.2				

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP									
N	NE	E	SE	S	SW	W	NW	VAR	CALM
.1	.4	.2	.2	.0	.0	.2	.0	.0	.0
.3	1.4	1.4	1.5	.7	.7	2.1	4.2	.0	.0
4.2	1.6	3.8	4.2	1.6	1.5	6.0	13.3	.0	1.2
5.4	2.2	3.2	3.8	.4	1.4	2.6	12.3	.0	3.3
3.2	.0	1.3	.6	.4	.1	.7	4.3	.0	4.1
78	24	57	59	18	21	67	197	.0	.9
13.5	4.2	9.6	10.3	3.2	3.8	11.6	34.7	.0	9.3

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR									
HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
0000	90	84	83	78	71	70	70	77.9	211
0600	91	90	86	81	73	70	70	80.3	242
1200	91	90	88	82	73	71	70	81.2	255
1800	86	85	84	79	72	71	71	78.7	244
TOT	91	89	86	80	72	70	70	79.6	932

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR									
HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN
0000	.0	23.8	36.4	23.8	11.9	4.2	68	143	
0600	.0	40.6	34.3	16.8	7.0	1.4	63	143	
1200	.0	49.7	32.5	13.0	3.6	1.2	61	169	
1800	.0	27.7	36.5	23.3	9.4	3.1	66	159	
TOT	0	22.0	21.4	11.7	4.8	1.5	64	614	

PERIOD (PRIMARY) 1939-1973  
(OVER-ALL) 1865-1973

NOVEMBER

AREA 0023 N.E. PERSIAN GULF  
27.2N 51.9E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FDG (WITHOUT PRECIPITATION)  
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TEMP OIF	69	73	76	77	80	81	85	88	92	TOT	W	FDG	NO FDG
11/13	.0	.0	.0	.0	.1	.1	.0	.0	.0	1	.0	.0	.1
9/10	.0	.0	.0	.1	.1	.3	.3	.3	.6	6	.0	.0	.9
7/8	.0	.0	.0	.1	.3	.3	.3	.3	.3	7	.0	.0	1.0
6	.0	.0	.0	.0	.1	.4	.1	.1	.1	5	.0	.0	.7
5	.0	.1	.1	.1	.6	.6	.6	.1	.1	11	.0	.0	1.6
4	.0	.3	.1	.6	1.0	.3	.0	.3	.0	16	.0	.0	2.3
3	.0	.0	.3	.3	1.2	.0	.0	.3	.0	12	.0	.0	1.7
2	.1	.1	1.2	2.3	2.9	.1	.1	.1	.0	47	.0	.0	6.8
1	.0	.0	1.2	2.3	1.7	.0	.0	.0	.0	36	.1	.1	5.0
0	.0	1.0	3.5	5.2	1.6	.0	.0	.0	.0	82	.0	.0	11.8
-1	.0	.7	3.9	6.0	1.3	.0	.0	.0	.0	83	.0	.0	11.9
-2	.0	1.0	4.2	4.7	.3	.0	.0	.0	.0	71	.0	.0	10.2
-3	.1	1.7	6.0	1.9	.1	.0	.0	.0	.0	39	.0	.0	9.9
-4	.4	2.2	6.0	2.3	.1	.0	.0	.0	.0	77	.0	.0	11.1
-5	.4	3.9	3.3	1.0	.0	.0	.0	.0	.0	60	.1	.1	8.5
-6	.7	3.3	1.9	.4	.0	.0	.0	.0	.0	44	.0	.0	6.3
-7/-8	1.6	3.5	1.0	.3	.0	.0	.0	.0	.0	44	.0	.0	6.3
-9/-10	1.3	1.4	.1	.0	.0	.0	.0	.0	.0	20	.0	.0	2.9
-11/-13	.4	.1	.0	.0	.0	.0	.0	.0	.0	4	.0	.0	.6
TOTAL	36	135	250	203	80	11				693	2	2	693
PCT	5.2	19.4	33.1	29.2	11.5	1.6				100.0	.3	.3	95.7



NOVEMBER  
TABLE 18  
AREA 0023 N. E. PERSIAN GULF  
27.1N 51.9E

PERIOD: (PRIMARY)  
(OVER-ALL): 1963-1970

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FY)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
1	1.5	4.4	1.0	.0	.0	.0	4.8	1.4	2.3	.0	.0	.0	.0	3.6
1-2	.0	5.5	1.7	.0	.0	.0	7.1	.0	2.7	.0	.0	.0	.0	2.7
3-4	.0	.0	1.5	.0	.0	.0	.0	.0	.0	1.2	.0	.0	.0	1.8
5-6	.0	.5	2.3	.6	.0	.0	3.3	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.5	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-46	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
47-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	10.3	5.5	1.1	.0	.0	17.3	1.4	5.6	1.2	.0	.0	.0	8.2

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
1	1.2	3.3	1.0	.0	.0	.0	3.2	1.8	1.3	.0	.0	.0	.0	2.6
1-2	.0	.0	.0	.0	.0	.0	3.2	.6	2.4	1.2	.0	.0	.0	4.2
3-4	.0	1.2	.0	.0	.0	.0	2.1	.0	1.8	1.5	.0	.0	.0	3.3
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-43	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
44-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.9	6.5	2.1	.0	.0	.0	10.5	2.4	5.0	2.7	.0	.0	.0	10.2

NOVEMBER  
TABLE 18  
AREA 0023 N. E. PERSIAN GULF  
27.1N 51.9E

PERIOD: (PRIMARY)  
(OVER-ALL) 1963-1970

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.7	.5	.0	.0	.0	.0	2.1	.2	.6	.0	.0	.0	.0	.8
1-2	1.2	.0	.0	.0	.0	.0	1.2	.0	1.4	.0	.0	.0	.0	1.4
3-4	.0	.5	.4	.0	.0	.0	1.1	.0	.2	.0	.0	.0	.0	.2
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.9	.9	.6	.0	.0	.0	4.4	.2	2.1	.0	.0	.0	.0	2.3

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.1	.9	.5	.0	.0	.0	2.4	2.0	3.2	.8	.0	.0	.0	5.9
1-2	.0	1.7	.5	.0	.0	.0	2.1	1.8	7.3	5.2	.0	.0	.0	14.2
3-4	.0	.5	.5	.0	.0	.0	.9	.0	4.4	6.5	.0	.0	.0	11.5
5-6	.0	.0	1.7	.0	.0	.0	1.2	.0	.8	3.2	.0	.0	.0	3.9
7	.0	.0	.0	.5	.0	.0	.5	.0	.6	1.2	.9	.0	.0	2.7
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.2	.0	.0	1.6
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.1	3.0	2.6	.5	.0	.0	7.1	3.8	16.2	16.8	3.3	.0	.0	40.2

PERIOD: (PRIMARY)  
(OVER-ALL) 1963-1970

NOVEMBER

AREA 0023 N. E. PERSIAN GULF  
27.1N 51.9E

TABLE 18 (CONT)

HGT	WIND SPEED (KTS) VS SEA HEIGHT (FT)							TOT D85
	C-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	21.5	12.6	1.0	.0	.0	.0	35.1	
1-2	4.2	20.9	8.4	.0	.0	.0	33.5	
3-4	.0	7.9	11.0	.5	.0	.0	19.4	
5-6	.0	1.0	5.8	.5	.0	.0	7.3	
7	.0	.5	1.0	1.6	.0	.0	3.1	
8-9	.0	.0	.0	.5	.0	.0	.5	
10-11	.0	.6	.0	1.0	.0	.0	1.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	25.7	42.9	27.2	4.2	.0	.0	100.0	
							191	

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+ TOTAL	MEAN HGT
<6	10.1	26.1	16.8	4.8	.6	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	280
6-7	.0	1.7	2.9	2.5	1.9	.2	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	47
8-9	.0	.2	.8	.2	.4	.2	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	11
10-11	.0	.0	.0	.0	.0	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2
12-13	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
TOTAL	17.9	6.3	2.5	1.3	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	135
PC	133	153	110	43	15	5	7	0	0	0	0	0	0	0	0	0	0	0	0	476
PC	27.9	34.2	23.1	9.0	3.2	1.1	1.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	103.0

DECEMBER

PERIOD: (PRIMARY) 1948-1970  
(OVER-ALL) 1885-1970

AREA 0023 N. E. PERSIAN GULF  
27.2N 51.8E

TABLE 1

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	RAIN SHR	RAIN SHR	DRZL	PRECIPITATION TYPE			MAIL	PCT FREQ PCPN AT 08 TIME	TOTAL PCPN AT 08S	THOR LTNG	OTHER WEATHER PHENOMENA					TOTAL 08S
				PCPN	FRZG	SNOW	OTHER FRZN				FOG	SMOKE	DUST	NO	STG	
N	.1	.2	.1	.0	.0	.0	.0	.0	3	.0	.0	.0	.0	.0	12.1	109
NE	.2	.0	.1	.0	.0	.0	.0	.0	3	.0	.0	.0	.0	.0	3.7	35
E	.4	.1	.1	.0	.0	.0	.0	.0	5	.5	.0	.0	.1	.0	5.9	61
SE	.6	.0	.0	.0	.0	.0	.0	.0	5	.1	.0	.0	.0	.0	8.7	81
S	.3	.1	.1	.0	.0	.0	.0	.0	4	.2	.0	.0	.0	.0	3.7	37
SW	.1	.1	.1	.0	.0	.0	.0	.0	2	.1	.0	.0	.0	.0	2.3	21
W	.0	.1	.0	.0	.0	.0	.0	.0	1	.0	.0	.0	.0	.0	10.3	89
NW	.3	.2	.2	.0	.0	.0	.0	.0	6	.1	1.3	.0	.2	.0	39.6	355
VAR	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	7.3	0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	7.3	63
TOT 08S	17	7	7	0	0	0	0	0	31	10	14	5	3	3	794	554
TOT PCT	2.0	.8	.8	.0	.0	.0	.0	.0	3.6	1.2	1.6	.6	.4	.4	93.0	100.0

TABLE 2

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	RAIN	RAIN SHR	DRZL	PRECIPITATION TYPE			MAIL	PCT FREQ PCPN AT 08 TIME	TOTAL PCPN AT 08S	THOR LTNG	OTHER WEATHER PHENOMENA					TOTAL 08S
				PCPN	FRZG	SNOW	OTHER FRZN				FOG	SMOKE	DUST	NO	STG	
0000Z	1.8	.5	.9	.0	.0	.0	.0	.0	7	1.8	1.4	.5	.0	.0	9.5	217
0600Z	2.2	.9	.9	.0	.0	.0	.0	.0	9	.4	1.8	.0	.4	.0	93.7	223
1200Z	1.8	.9	.4	.0	.0	.0	.0	.0	7	.4	2.2	1.8	.0	.0	92.1	228
1800Z	1.8	.9	1.3	.0	.0	.0	.0	.0	9	1.8	1.3	.0	.0	.0	92.9	225
TOT	17	7	8	0	0	0	0	0	32	10	15	5	3	3	831	893
PCT	1.9	.8	.9	.0	.0	.0	.0	.0	3.6	1.1	1.7	.6	.3	.3	93.1	100.0

DECEMBER

PERIOD: (PRIMARY) 1948-1970  
(OVER-ALL) 1885-1970

AREA 0023 N. E. PERSIAN GULF  
27.2N 51.8E

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS		00	03	06	09	12	15	18	21
N	1.3	6.9	4.6	.5	.0	.0	132	13.4	15.0	13.4	15.4	18.1	9.8	12.9	15.2	9.6
NE	.9	2.6	1.0	.1	.0	.0	45	4.6	5.0	2.1	4.8	8.3	2.7	7.1	4.7	5.9
E	.7	4.6	1.6	.2	.0	.0	71	7.2	7.4	14.6	7.4	12.5	3.2	2.9	8.0	8.8
SE	.9	4.4	3.4	.7	.0	.0	91	9.3	9.4	10.4	11.9	12.5	8.1	4.3	7.9	8.8
S	.5	2.6	1.3	.1	.0	.0	44	4.5	2.5	4.2	3.1	5.6	3.8	12.9	6.8	5.9
SW	.5	1.5	.3	.2	.0	.0	24	2.5	2.7	4.2	1.9	1.4	.0	.0	2.3	1.5
W	1.2	5.8	2.7	.6	.0	.0	102	11.3	8.0	8.3	11.4	6.9	11.7	12.9	10.6	8.8
NW	2.2	17.2	18.9	2.7	.0	.0	406	11.0	41.8	37.5	41.5	29.2	49.6	41.4	33.1	44.9
VAR	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	7.3	452	333	51	.0	.0	72	7.3	220	12	221	36	211	35	13.5	5.9
TOT OBS	153	456	338	51	.0	.0	991	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
TOT PCT	15.4	45.6	33.8	5.1	.0	.0	991	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)						TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-6	7-16	17-27	28-40	41+	41+				00	03	06	09	12	15	18	21
N	4.5	7.1	1.8	.0	.0	.0	132	13.4	10.0	14.8	15.8	10.3	12.7	12.7	12.7	12.7	12.7
NE	2.2	2.1	.3	.0	.0	.0	45	4.6	7.9	4.8	5.3	3.4	4.9	4.9	4.9	4.9	4.9
E	3.5	3.1	.5	.1	.0	.0	71	7.2	8.4	7.8	8.1	4.9	8.1	8.1	8.1	8.1	8.1
SE	2.8	4.5	1.8	.2	.0	.0	91	9.3	11.1	9.5	12.0	7.7	8.0	8.0	8.0	8.0	8.0
S	1.8	1.8	.8	.1	.0	.0	44	4.5	9.9	.6	3.4	5.1	6.6	6.6	6.6	6.6	6.6
SW	1.3	1.0	.2	.0	.0	.0	24	2.5	8.0	2.8	1.8	3.3	2.1	2.1	2.1	2.1	2.1
W	3.9	5.1	1.1	.2	.0	.0	102	10.3	9.7	8.0	10.8	11.9	10.4	10.4	10.4	10.4	10.4
NW	8.8	22.0	9.8	.5	.0	.0	406	41.0	12.0	41.6	39.8	48.5	34.7	34.7	34.7	34.7	34.7
VAR	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	7.3	467	151	10	.0	.0	72	7.3	9.9	8.2	3.1	5.3	12.5	12.5	12.5	12.5	12.5
TOT OBS	358	467	151	10	.0	.0	991	100.0	9.9	232	257	246	256	256	256	256	256
TOT PCT	36.1	46.6	16.2	1.0	.0	.0	991	100.0	9.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1948-1970  
(OVER-ALL) 1885-1970

DECEMBER

AREA 0023 N. E. PERSIAN GULF  
27.2N 51.8E

TABLE 4

HOUR	CALM	PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)							TOTAL OBS
		1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ
00003	8.2	7.3	47.0	32.8	4.7	.0	.0	9.8	100.0
06009	3.1	8.9	49.8	32.3	5.8	.0	.0	10.2	100.0
12015	5.3	7.3	43.5	37.8	6.1	.0	.0	10.6	100.0
18021	12.5	9.0	42.2	32.4	3.9	.0	.0	9.0	100.0
TOT	72	81	452	335	51	0	0	9.9	991
PCT	11.3	8.2	45.6	33.8	5.1	.0	.0	100.0	

TABLE 5

WIND DIR	PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION							TOTAL OBS	MEAN CLOUD COVER
	0-2	3-4	5-7	8-6	7-6	8-6	7-6		
N	7.1	1.8	3.4	1.7	91	2.7	91	91	2.7
NE	1.5	1.6	1.6	1.6	32	3.9	32	32	3.9
E	3.1	1.6	2.8	1.4	54	3.7	54	54	3.7
SE	3.1	1.5	2.6	1.5	54	4.2	54	54	4.2
S	1.4	1.4	1.9	1.7	24	3.9	24	24	3.9
SW	2.0	1.3	1.3	1.4	20	2.3	20	20	2.3
W	7.5	1.8	1.6	1.0	84	2.2	84	84	2.2
NW	25.5	6.7	6.8	1.8	290	2.2	290	290	2.2
VAR	.0	.0	.0	.0	0	.0	0	0	.0
CALM	6.5	1.0	1.7	.0	58	1.1	58	58	1.1
TOT OBS	411	100	147	54	712	2.6	712	712	2.6
TOT PCT	57.7	14.0	20.6	7.6	100.0		100.0		

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT) NH >4/8 AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION													
WIND DIR	150		300		600		1000		2000		3500		TOTAL OBS
	299	599	599	999	999	999	1999	3499	3499	4999	6499	7999	
N	.0	.0	.0	.0	.1	.1	.5	.7	.4	.4	.1	.0	91
NE	.0	.0	.0	.0	.2	.2	.4	.4	.4	.4	.1	.0	32
E	.1	.1	.0	.0	.4	.4	.7	.1	.0	.0	.1	.0	54
SE	.0	.0	.1	.0	.0	.5	.5	.5	.1	.1	.1	.0	54
S	.0	.0	.0	.0	.1	.1	.3	.3	.0	.0	.0	.1	24
SW	.0	.0	.0	.0	.1	.1	.2	.0	.0	.0	.1	.0	20
W	.0	.0	.1	.1	.2	.2	.2	.3	.1	.1	.2	.1	84
NW	.0	.0	.1	.1	.3	.3	2.2	1.0	1.4	.8	.4	.1	290
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	58
TOT OBS	1	1	2	10	34	23	15	13	13	6	10	597	712
TOT PCT	.1	.1	.3	1.4	4.8	3.2	2.1	1.8	1.8	.6	1.4	83.8	100.0

PERIOD: (PRIMARY) 1948-1970  
(OVER-ALL) 1945-1970

DECEMBER

AREA 0023 N. E. PERSIAN GULF  
27.2N 51.8E

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE  
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	OR >10	OR >5	OR >2	VSBY (NM) OR >1	OR >1/2	OR >1/4	OR >50YD	OR >50
OR >6500	1.5	2.2	2.2	2.2	2.2	2.2	2.2	2.2
OR >5000	3.0	3.8	3.8	3.8	3.9	3.9	3.9	3.9
OR >3500	4.8	5.9	5.9	5.9	6.0	6.0	6.0	6.0
OR >2000	7.2	8.5	8.6	8.8	9.1	9.1	9.1	9.1
OR >1000	11.2	12.9	13.6	13.6	13.9	13.9	13.9	13.9
OR >600	12.0	14.1	14.8	14.8	15.1	15.1	15.1	15.1
OR >300	12.1	14.6	15.2	15.2	15.5	15.5	15.5	15.5
OR >150	12.2	14.7	15.4	15.4	15.6	15.6	15.6	15.6
OR > 0	12.2	14.8	15.5	15.5	15.8	15.8	15.8	15.8
TOTAL	90	109	114	114	115	116	116	116

TOTAL NUMBER OF OBS: 735

PCT FREQ NH <5/8: 84.2

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	OBS	TOTAL
	46.2	13.3	11.0	8.2	5.5	3.6	4.7	2.5	4.8	.1	788

PERIOD: (PRIMARY) 1948-1970  
(OVER-ALL) 1865-1970

DECEMBER

AREA 0023 N. E. PERSIAN GULF  
27.2N 51.8E

TABLE 2

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF  
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (IN)	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCP	TOTAL OBS
PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
<1/2 NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1/2<1 PCP	.0	.0	.1	.0	.1	.0	.0	.0	.0	.0	.2	.2
NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT %	.0	.0	.1	.0	.1	.0	.0	.0	.0	.0	.2	.2
1<2 PCP	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.1	.1
NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT %	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.1	.1
2<5 PCP	.1	.2	.1	.1	.0	.0	.0	.1	.0	.0	.6	.6
NO PCP	.0	.0	.0	.4	.2	.0	.1	1.9	.0	.0	2.6	2.6
TOT %	.1	.2	.1	.6	.2	.0	.1	2.0	.0	.0	3.2	3.2
5<10 PCP	.2	.1	.1	.3	.3	.1	.1	.6	.0	.0	1.8	1.8
NO PCP	1.5	.1	.9	1.4	1.0	.1	.5	5.7	.0	.8	12.1	12.1
TOT %	1.8	.2	.9	1.8	1.3	.2	.6	6.3	.0	.8	13.9	13.9
10+ PCP	.1	.0	.2	.1	.1	.2	.0	.1	.0	.0	.8	.8
NO PCP	11.0	3.7	5.7	7.1	2.7	2.1	9.8	33.1	.0	6.6	81.8	81.8
TOT %	11.1	3.7	5.9	7.2	2.8	2.3	9.8	33.3	.0	6.6	82.6	82.6
TOT OBS	12.9	4.2	7.1	9.5	4.3	2.5	10.5	41.5	.0	7.4	100.0	83.1
TOT PCP												



DECEMBER

AREA 0023 N. E. PERSIAN GULF  
27.2N 51.8E

PERIOD: (PRIMARY) 1948-1970  
(OVER-ALL) 1985-1970

TABLE 9  
PERCENT FREQ OF WIND DIRECTION VS WIND SPEED  
WITH VARYING VALUES OF VISIBILITY

VS1Y (N)	SPO KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	.1
	11-21	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.1	.1
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.1	.0	.1	.0	.0	.0	.0	.0	.2	.2
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1
2<5	0-3	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.4	.4
	4-10	.0	.0	.0	.4	.3	.0	.1	.1	.0	.0	1.2	1.2
	11-21	.2	.2	.0	.0	.0	.0	.0	.9	.0	.0	2.0	2.0
	22+	.0	.0	.1	.1	.0	.0	.0	.1	.0	.0	.3	.3
	TOT %	.2	.2	.1	.6	.3	.0	.1	2.4	.0	.0	3.9	3.9
5<10	0-3	.5	.0	.2	.4	.1	.0	.1	.2	.0	.8	1.9	1.9
	4-10	.7	.3	.5	.8	.8	.1	.5	2.2	.0	.0	5.7	5.7
	11-21	.4	.0	.2	.0	.4	.0	.0	2.8	.0	.0	4.7	4.7
	22+	.1	.0	.0	.1	.0	.1	.6	.6	.0	.0	1.0	1.0
	TOT %	1.6	.3	.9	1.3	1.3	.2	.6	5.6	.0	.8	13.3	13.3
10+	0-3	.8	.3	.6	.8	.3	.5	1.2	1.9	.0	6.7	13.6	13.6
	4-10	6.2	2.0	3.7	3.6	1.6	1.5	5.4	14.3	.0	.0	38.6	38.6
	11-21	5.5	.7	1.7	2.3	.6	.2	2.7	14.9	.0	.0	28.5	28.5
	22+	.5	.0	.2	.5	.1	.1	.4	1.9	.0	.0	3.7	3.7
	TOT %	14.4	4.0	5.9	7.1	2.7	2.3	9.7	33.0	.0	6.7	82.5	82.5
TOT OBS													942
TOT PCT		13.3	4.4	7.0	9.5	4.4	2.4	10.3	41.1	.0	7.5	100.0	

DECEMBER

PERIOD: (PRIMARY) 1948-1970  
(OVER-ALL) 1885-1970

AREA 0023 N. E. PERSIAN GULF  
27.2N 51.8E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET/NH >4/8) AND  
OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL D85
00003	.0	.0	.5	1.1	4.3	3.3	1.6	.0	.5	1.6	13.0	87.0	184
06009	.5	.0	.0	2.4	5.9	5.4	1.5	1.5	2.0	1.0	20.0	80.0	205
12015	.0	.0	1.0	1.5	5.4	.5	2.9	3.4	.5	.5	15.6	84.4	205
18021	.0	.5	.0	.0	2.1	2.7	1.6	1.6	.0	2.1	10.7	89.3	187
TOT	1	1	3	10	35	23	15	13	6	10	117	664	781
PCT	.1	.1	.4	1.3	4.5	2.9	1.9	1.7	.8	1.3	15.0	85.0	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NH) 8Y HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL D85
00003	.0	.0	.0	2.3	5.0	55.2	177
06009	.0	.5	.0	1.5	5.7	92.3	194
12015	.0	.5	.0	1.6	9.5	88.4	189
18021	.0	.0	.0	1.7	7.9	90.4	177
TOT	0	2	0	13	57	663	735
PCT	.0	.3	.0	1.8	7.8	90.2	100.0

TABLE 12

CUMULATIVE PCT FRQ OF RANGES OF VSBY (NH) AND/OR  
CEILING HGT (FEET/NH >4/8) 8Y HOUR

HOUR (GMT)	<150 D85	<150 <50YD	<500 D85	<1000 D85	1000+ D85	NH <5/8 AND 5+	TOTAL D85
00003	.0	.6	3.4	11.4	85.1	175	175
06009	.5	1.0	5.2	16.5	78.4	194	194
12015	.0	1.6	4.8	12.7	82.5	189	189
18021	.0	.6	2.3	10.7	87.0	177	177
TOT	1	7	29	95	611	735	735
PCT	.1	1.0	3.9	12.9	83.1	100.0	100.0

DECEMBER

00-100° (P&M) 1948-1970  
(OVER-ALL) 1825-1970

AREA 0023 N. E. PERSIAN GULF  
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TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
80/84	.0	.0	.2	.5	1.2	.2	.0	.0	12	2.0
75/79	.0	.2	1.3	4.6	8.1	6.3	2.4	1.5	148	25.0
70/74	.0	.5	1.7	9.6	13.3	8.1	3.7	3.4	259	40.3
65/69	.0	.2	1.2	5.1	6.1	5.4	3.5	1.3	135	22.3
60/64	.0	.0	.5	.7	2.2	2.2	2.4	1.5	56	9.4
55/59	.0	.0	.0	.2	.2	.2	.0	.0	3	.5
TOTAL	.0	.5	29	122	184	135	71	46	593	100.0
PCT	.0	.8	4.9	20.6	31.0	22.9	12.0	7.8		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
80/84	.2	.0	.0	.2	.1	.0	.4	.6	.0	.5
75/79	1.2	1.5	3.0	5.0	1.7	.9	3.0	6.7	.0	2.0
70/74	3.6	1.1	2.7	2.1	1.1	1.6	6.9	17.4	.0	3.9
65/69	4.6	1.0	1.8	.8	.4	.8	1.8	11.1	.0	.5
60/64	3.2	.6	.3	.2	.0	.0	.5	4.3	.0	.3
55/59	.1	.2	.0	.0	.0	.0	.0	.2	.0	.0
TOTAL	75	25	46	49	19	19	75	239	.0	43
PCT	12.8	4.3	7.8	8.3	3.3	3.3	12.6	40.4	.0	7.3

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (OEC F) BY HOUR

HOUR (GMT)	MAX	95%	90%	75%	50%	5%	1%	MIN	MEAN	TOTAL OBS
0003	82	78	76	71	62	60	60	59	70.2	243
0609	84	83	81	72	63	60	60	59	72.2	256
1215	84	83	79	73	64	60	60	59	72.5	249
1821	81	78	77	71	63	60	60	59	70.5	263
TOT	84	82	78	72	63	60	60	59	71.4	1011

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
0003	.0	17.1	28.3	28.3	17.8	8.6	71	152
0609	.0	26.8	28.8	24.2	9.2	9.2	68	153
1215	.0	31.1	37.8	14.6	11.0	5.5	66	164
1821	.0	27.7	29.0	24.5	12.3	6.5	68	155
TOT	0	164	194	142	78	46	68	624

PERIOD: (PRIMARY) 1948-1970  
(OVER-ALL) 1885-1970

DECEMBER

AREA 0023 N. E. PERSIAN GULF  
27.2N 51.8E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (OEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)  
VS AIR-SEA TEMPERATURE DIFFERENCE (OEG F)

AIR-SEA TEMP DIF	57	61	65	69	73	77	81	TOT	W	MO
	50	64	68	72	76	80	84		FOG	FOG
9/10	.0	.0	.0	.0	.0	.1	.0	1	.0	.1
7/8	.0	.0	.0	.0	.0	.0	.3	2	.0	.3
6	.0	.0	.0	.0	.3	.3	.3	6	.0	.9
5	.0	.0	.0	.0	.4	.1	.0	4	.0	.6
4	.0	.0	.0	.0	.3	.1	.1	4	.0	.6
3	.0	.0	.0	.1	.4	.6	.3	10	.0	1.5
2	.0	.0	.1	.6	.9	1.5	.1	21	.0	3.0
1	.0	.0	.1	.6	1.9	1.3	.3	29	.0	4.2
0	.0	.1	.4	.7	2.0	1.6	.1	34	.0	4.9
-1	.0	.0	.1	.7	4.5	1.3	.0	46	.0	6.7
-2	.0	.0	.7	2.8	5.1	2.8	.1	79	.0	11.5
-3	.0	.0	.7	2.3	4.2	1.5	.1	61	.0	8.9
-4	.1	.1	1.3	3.8	3.3	.3	.0	62	.0	9.0
-5	.0	.3	2.0	4.8	2.9	.3	.0	71	.0	10.3
-6	.0	.6	2.9	4.4	1.3	.0	.0	63	.0	9.1
-7/8	.0	1.6	6.0	6.5	2.5	.1	.0	115	.0	16.7
-9/10	.1	1.9	2.9	1.9	.0	.0	.0	47	.0	6.8
-11/13	.6	2.5	1.0	.1	.0	.0	.0	29	.0	4.2
-14/16	.0	.4	.1	.1	.0	.0	.0	5	.0	.7
TOTAL	6	52	128	201	207	82	13	699	0	689
PCT	.9	7.5	18.6	29.2	30.0	11.9	1.9	100.0		100.0

PERIOD: (PRIMARY)  
(OVER-ALL) 1963-1970

DECEMBER  
TABLE 18

AREA 0023 N. E. PERSIAN GULF  
27.2N 51.8E

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N				NE				PCT
	1-3	4-10	11-21	22-33	34-47	48+	49+	50+	
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	3.9	1.1	.0	.0	.0	.0	.0	.0
3-4	.0	1.7	1.5	.0	.0	.0	.0	.0	.0
5-6	.0	.0	1.8	.0	.0	.0	.0	.0	.0
7	.0	.0	.5	.0	.0	.0	.0	.0	.0
9-9	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-19	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	6.8	3.8	.6	.0	.0	.0	.0	3.9

HGT	E				SE				PCT
	1-3	4-10	11-21	22-33	34-47	48+	49+	50+	
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.5	2.4	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.5	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	3.0	.5	1.4	.0	.0	.0	.0	10.0

PERIOD: (PRIMARY)  
(OVER-ALL) 1963-1970

DECEMBER

TABLE 12

AREA 0023 N. F. PERSIAN GULF  
27.2N 51.8E

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.5	.0	.0	.0	.0	.5	.0	.2	.0	.0	.0	.0	.2
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.6	.6	.0	.0	.0	1.2	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.5	.9	.0	.0	.0	1.4	.0	.2	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.5	1.5	.0	.0	.0	3.0	.0	.5	.0	.0	.0	.0	.5

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.7	.6	.0	.0	.0	.0	2.3	2.0	1.8	.0	.0	.0	.0	3.8
1-2	.0	3.9	.0	.0	.0	.0	3.9	.0	13.0	8.0	.0	.0	.0	21.1
3-4	.0	1.2	.6	.9	.0	.0	2.7	.0	3.2	7.4	3.3	.0	.0	13.9
5-6	.0	.0	1.5	.0	.0	.0	1.5	.0	2.4	8.8	.0	.0	.0	11.2
7	.0	.0	.5	.0	.0	.0	.5	.0	.0	2.7	1.2	.0	.0	3.9
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.5	.0	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.7	3.8	3.0	.9	.0	.0	11.4	2.0	20.5	27.1	4.5	.0	.0	54.1

AREA 0023 N. E. PERSIAN GULF  
27.2N 51.8E

DECEMBER

PERIOD: (PRIMARY) 1963-1970  
(OVER-ALL)

TABLE 18 (CONT)

WIND SPEED (KTS) VS SEA HEIGHT (FT)								TOT OBS
HGT	<-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	16.8	3.1	.0	.0	.0	.0	22.0	
1-2	1.0	24.1	8.4	.0	.0	.0	33.2	
3-4	.0	7.3	9.4	3.7	.0	.0	20.4	
5-6	.0	3.1	13.1	.0	.0	.0	16.2	
7	.0	.0	3.7	2.1	.0	.0	5.8	
8-9	.0	.0	.0	1.0	.0	.0	1.0	
10-11	.0	.0	.5	.5	.0	.0	1.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	15.9	37.7	35.1	7.3	.0	.0	100.0	191

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)																			TOTAL	PCT	MEAN HGT
	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-49	49-50	61-70	71-86	87+	TOTAL	MEAN HGT	
<6	4.6	27.8	16.1	5.1	1.2	.2	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	326	3
6-7	.0	.7	3.9	5.4	2.7	1.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	83	3
8-9	.0	.2	.3	.7	1.2	.5	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	19	6
10-11	.0	.0	.2	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	4
12-13	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	5
>13	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	6
INDET	1.9	7.6	1.5	.8	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	126	1
TOTAL	1.1	21.4	13.0	7.5	3.4	1.2	2	2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	500	3
PCT	20.5	36.3	22.0	12.7	5.8	2.0	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1926-1971  
(OVER-ALL) 1864-1971

ANNUAL

AREA 0023 N. E. PERSIAN GULF  
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TABLE 1

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	RAIN	RAIN SHWR	ORZL	PRECIPITATION TYPE				HAIL	PCT FREQ PCPN AT JE TIME	TOTAL PCPN OBS	THDR LTNG	OTHER WEATHER PHENOMENA				TOTAL OBS
				FRZG	SNOW	OTHER	FRZN					FG	SNOKE	OUST	DUST	SIG
N	.1	*	*	.0	.0	.0	.0	.0	.1	13	.1	.1	.5	.3	7.9	900
NE	.1	*	*	.0	.0	.0	.0	.0	.1	11	.1	*	.2	*	2.6	297
E	.1	*	.1	.0	.0	.0	.0	.0	.2	20	.1	*	.4	.1	5.1	579
SE	.2	*	*	.0	.0	.0	.0	.0	.3	25	.1	.1	.6	.1	7.8	686
S	.1	*	*	.0	.0	.0	.0	.0	.1	10	*	*	.3	.1	3.1	357
SW	*	*	*	.0	.0	.0	.0	.0	.1	9	*	*	.4	*	3.1	356
W	*	*	.0	.0	.0	.0	.0	.0	.1	5	.1	.2	1.3	.7	15.4	1739
NW	.1	.1	*	.0	.0	.0	.0	.0	.2	25	.2	.5	2.5	1.6	33.0	3757
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	*	2	*	.2	1.0	.4	8.7	995
TOT OBS	69	28	25	.0	.0	.0	.0	2	*	124	64	105	683	321	8582	9869
TOT PCT	.7	.3	.2	.0	.0	.0	.0	*	1.2		.6	1.1	7.2	3.4	86.6	100.0

TABLE 2

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	RAIN	RAIN SHWR	ORZL	PRECIPITATION TYPE				HAIL	PCT FREQ PCPN AT 08 TIME	TOTAL PCPN OBS	THDR LTNG	OTHER WEATHER PHENOMENA				TOTAL OBS
				FRZG	SNOW	OTHER	FRZN					FG	SNOKE	OUST	DUST	SIG
0003	1.0	.2	.3	.0	.0	.0	.0	*	1.6	40	1.3	.7	6.3	3.4	86.9	2460
0609	.7	.3	.3	.0	.0	.0	.0	.0	1.3	34	.2	1.9	7.8	3.2	85.7	2431
1215	.5	.3	.1	.0	.0	.0	.0	.0	1.0	29	.1	.9	7.9	3.7	86.5	2817
1821	.4	.2	.3	.0	.0	.0	.0	*	.9	25	1.0	.8	6.5	3.2	87.6	2573
TOT	71	29	26	.0	.0	.0	.0	2		128	66	113	723	341	9121	10481
PCT	.7	.3	.2	.0	.0	.0	.0	*	1.2		.6	1.1	7.2	3.4	86.7	100.0



## ANNUAL

PERIOD: (PRIMARY) 1936-1971  
(OVER-ALL) 1864-1971AREA 0023 N. E. PERSIAN GULF  
27.2N 51.8E

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						TOTAL OBS	PCT FREQ	MEAN SPO	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+				00	03	06	09	12	15	18	21
N	1.4	4.7	2.6	.4	*	.0	1121	9.2	9.1	11.1	8.3	11.0	10.0	6.6	7.1	8.9	8.3
NE	.8	1.9	.5	*	*	.0	390	3.2	6.5	3.8	6.5	3.7	3.3	1.9	4.5	3.0	3.5
E	1.1	3.8	1.0	.1	*	.0	724	5.9	7.0	5.6	10.3	7.8	6.1	4.6	5.0	5.5	6.1
SE	1.6	5.3	2.0	.2	*	.0	1112	9.1	7.6	7.4	9.3	9.0	11.4	10.6	8.7	8.0	10.3
S	1.1	2.2	.5	*	.0	.0	466	3.8	6.6	2.7	2.1	3.5	3.1	5.2	4.9	3.4	4.1
SW	1.0	2.3	.4	.1	.0	.0	455	3.8	6.8	3.3	4.0	2.9	3.8	4.9	4.0	3.5	4.9
W	2.5	10.5	4.2	.5	*	.0	2156	17.8	8.9	16.7	18.9	16.1	17.2	20.6	19.7	17.5	15.3
NW	3.0	17.9	14.0	2.5	.1	.0	4553	37.4	11.0	34.8	33.0	36.9	36.2	38.9	39.9	38.8	36.9
VAR	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	9.9	386	386	480	16	.0	1190	9.9	8.4	14.5	7.6	9.1	6.9	6.5	6.1	11.4	10.5
TOT OBS	2695	5892	25.2	3.9	.1	.0	12169	100.0		2493	251	234	281	289	361	2521	1559
TOT PCT	22.3	48.6	25.2	3.9	.1	.0	100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPO	HOUR (GMT)							
	0-6	7-16	17-27	28-40	41+				00	03	06	09	12	15	18	21
N	3.8	4.2	1.1	.1	.0	1121	9.2	9.1	10.8	10.7	6.7	6.7	8.8			
NE	2.0	1.1	.1	*	.0	390	3.2	6.5	3.9	3.7	2.2	2.2	3.1			
E	3.3	2.3	.3	*	.0	724	5.9	7.0	6.0	7.4	4.7	4.7	5.6			
SE	4.5	2.7	.8	.1	.0	1112	9.1	7.6	7.6	9.5	10.3	10.3	8.5			
S	2.5	1.1	.2	*	.0	456	3.8	6.6	2.7	3.8	5.1	5.1	3.6			
SW	2.4	1.3	.1	*	.0	455	3.8	6.8	3.4	3.1	4.8	4.8	3.7			
W	7.6	8.4	1.6	.1	.0	2156	17.8	8.9	17.0	16.3	20.5	20.5	17.1			
NW	10.6	19.4	6.7	.5	*	4553	37.4	11.0	34.9	36.8	39.0	39.0	38.3			
VAR	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0			
CALM	9.9	386	386	480	.0	1190	9.9	8.4	13.7	8.7	6.5	6.5	11.2			
TOT OBS	5629	5094	1341	103	2	12169	100.0		2744	3.65	3180	3180	3080			
TOT PCT	46.5	41.8	10.9	.8	*	100.0			100.0	100.0	100.0	100.0	100.0			

PERIOD: (PRIMARY) 1936-1971  
(COVER-ALL) 1864-1971

ANNUAL

AREA 0025 N. E. PERSIAN GULF  
27.2N 51.8E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)									
HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				PCT FREQ	TOTAL OBS
				11-21	22-33	34-47	48+		
0000	13.7	11.8	46.9	23.7	3.7	.2	.0	8.0	100.0
0600	8.7	14.2	44.1	25.4	3.6	.1	.0	2.3	100.0
1200	6.5	11.2	50.8	26.9	4.5	.2	.0	9.0	100.0
1800	11.2	12.3	48.2	24.6	3.6	.1	.0	8.2	100.0
TOT	9.9	12.4	48.6	25.2	3.9	.1	.0	5.4	100.0
PCT									

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION									
WIND DIR	0-2	3-4	5-7	8-10	OBS	TOTAL OBS	MEAN CLOUD COVER		TOTAL OBS
							1-5	6-10	
N	6.5	.8	1.0	.5	762	762	1.5	1.8	762
NE	2.0	.3	.4	.2	251	251	1.8	2.0	251
E	3.8	.5	1.0	.4	497	497	2.0	2.1	497
SE	5.6	.8	1.5	.8	752	752	2.1	2.2	752
S	2.6	.3	.6	.2	309	309	2.2	2.2	309
SW	5.1	.2	.2	.2	315	315	1.6	1.6	315
W	12.2	1.2	1.1	.5	1539	1539	1.1	1.1	1539
NW	31.3	2.5	2.9	1.0	3238	3238	1.1	1.1	3238
VAR	.0	.0	.0	.0	0	0	.0	.0	0
CALM	9.1	.6	.4	.2	887	887	.9	.9	887
TOT OBS	6707	632	843	371	8553	8553	1.3	1.3	8553
TOT PCT	75.2	7.2	9.5	4.1	100.0	100.0			100.0

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT) NH > 4/8 AND OCCURRENCE OF NH 4/8 BY WIND DIRECTION													
WIND DIR	000	149	150	299	300	599	600	999	1000	2000	3000	4999	5000
N	.1	.0	.0	.0	.0	.0	.1	.1	.3	.2	.1	.1	.1
NE	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.1	.1	.1
E	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	.1	.1	.1
SE	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	.1	.1	.1
S	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.1	.1	.1
SW	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.1	.1	.1
W	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	.1	.1	.1
NW	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	.1	.1	.1
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	.1	.1	.1
TOT OBS	18	3	3	5	54	191	126	1.0	1.4	1.0	1.0	1.0	1.0
TOT PCT	.2	.0	.0	.1	.6	2.1	1.4	.5	.4	1.3	92.3	100.0	100.0

PERIOD: (PRIMARY) 1536-1971  
(OVER-ALL) 1864-1971

ANNUAL

AREA 0023 N. E. PERSIAN GULF  
27.2N 51.8E

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE  
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	OR >10	OR >5	OR >2	OR >1	OR >1/2	OR >1/4	OR >50YD	OR >0
OR >6500	1.0	1.0	1.6	1.7	1.7	1.7	1.7	1.7
OR >5000	1.4	2.0	2.2	2.2	2.2	2.2	2.2	2.2
OR >3500	2.1	2.9	3.1	3.1	3.1	3.1	3.1	3.1
OR >2000	3.0	4.3	4.5	4.5	4.5	4.5	4.5	4.5
OR >1000	4.4	6.0	6.5	6.6	6.6	6.6	6.6	6.6
OR >500	4.7	6.5	7.1	7.1	7.2	7.2	7.2	7.2
OR >300	4.8	6.6	7.2	7.2	7.2	7.2	7.2	7.2
OR >150	4.8	6.6	7.2	7.2	7.2	7.2	7.2	7.2
OR >0	4.8	6.7	7.3	7.3	7.4	7.4	7.4	7.4
TOTAL	493	626	685	688	691	694	696	696

TOTAL NUMBER OF OBS 9056

PCT FREQ NH <5/8 92.3

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	OBSCD	TOTAL
	69.5	12.3	5.0	3.0	2.1	1.8	2.1	1.7	2.2	.2	9630

PERIOD: (PRIMARY) 1936-1971  
(OVER-ALL) 1864-1971

ANNUAL

AREA 0023 N. E. PERSIAN GULF  
17.2N 51.8E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF  
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VISY (NH)	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
PCF	.0	.0	.0	.0	.0	*	.0	.0	.0	.0	*	
NO PCF	*	.0	*	*	*	.0	*	.0	.0	*	*	
TOT %	*	.0	*	*	*	*	*	.1	.0	*	.3	
PCP	.0	.0	*	*	*	.0	.0	.0	.0	.0	*	
NO PCP	.0	*	*	*	*	.0	*	.0	.0	*	*	
TOT %	.0	*	*	*	*	.0	*	.1	.0	*	.3	
PCP	.0	*	*	*	*	.0	.0	.0	.0	.0	*	
NO PCP	.1	*	.1	.1	*	*	.2	.5	.0	*	1.1	
TOT %	.1	*	.1	.1	*	*	.2	.5	.0	*	1.1	
PCP	*	*	*	*	*	*	*	*	.0	.0	.2	
NO PCP	.2	.1	.2	.2	.2	.2	.6	1.6	.0	.3	3.6	
TOT %	.2	.1	.2	.3	.2	.2	.6	1.6	.0	.3	3.8	
PCP	.1	*	.1	.1	.1	*	*	.1	.0	.0	.5	
NO PCP	1.8	.6	1.1	2.0	.9	1.0	3.3	7.1	.0	2.0	19.7	
TOT %	1.9	.6	1.1	2.2	.9	1.0	3.4	7.1	.0	2.0	20.2	
PCP	*	*	.1	.1	*	*	*	.1	.0	*	.4	
NO PCP	6.8	2.3	4.3	6.3	2.5	2.4	13.4	28.2	.0	7.6	74.0	
TOT %	6.9	2.3	4.4	6.3	2.5	2.4	13.4	28.4	.0	7.8	74.4	
TOT DRC	9.1	3.0	5.9	8.9	3.6	3.7	17.7	37.9	.0	10.2	100.0	
TOT PCT	9.1	3.0	5.9	8.9	3.6	3.7	17.7	37.9	.0	10.2	100.0	9854

PERIOD (PRIMARY) 1936-1971  
(OVER-ALL) 1864-1971

ANNUAL

AREA 0023 N. E. PERSIAN GULF  
27.2N 51.8E

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED  
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPO KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1
	TOT %	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.2	.2
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1	.1
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1
	TOT %	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.2	.2
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1	.1
	11-21	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.1	.1
	TOT %	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.1	.1
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.1	.1	.1	.1	.1	.1	.1	.2	.0	.0	.3	.7
	11-21	.1	.1	.1	.1	.1	.1	.1	.2	.0	.0	.3	.7
	TOT %	.2	.2	.2	.2	.2	.2	.2	.4	.0	.0	.6	1.4
5<10	0-3	.2	.2	.2	.2	.2	.2	.2	.3	.0	.0	.3	.7
	4-10	.9	.3	.6	1.2	.5	.6	1.9	3.1	.0	2.0	4.5	9.0
	11-21	.4	.2	.2	.6	.1	.1	.6	2.6	.0	.0	4.8	9.0
	TOT %	1.7	.5	1.1	2.2	.9	.9	3.2	6.7	.0	2.0	19.2	37.6
10+	0-3	1.0	.6	.8	1.1	.8	.6	2.0	2.3	.0	7.6	16.9	37.6
	4-10	3.7	1.6	3.0	4.0	1.4	1.7	8.3	14.2	.0	37.6	75.5	114.84
	11-21	2.1	.3	.7	1.3	.3	.2	3.2	10.5	.0	18.7	37.6	75.5
	TOT %	7.1	2.5	4.6	6.5	2.6	2.6	13.7	28.4	.0	75.6	151.8	227.2
TOT OBS		9.1	3.1	6.0	9.1	3.7	3.7	17.8	37.4	.0	10.0	100.0	114.84

PERIOD: (PRIMARY) 1936-1971  
(OVER-ALL) 1966-1971

ANNUAL

AREA 0023 N. E. PERSIAN GULF  
27.2N 51.8E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH > 478) AND  
OCCURRENCE OF NH < 578 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL ANY HGT	NH < 578 ANY HGT	TOTAL OBS
00003	.1	.0	.1	.5	2.3	1.4	1.0	.4	.2	1.2	7.2	92.8	2228
06009	.3	*	.1	.7	2.4	1.8	.8	.2	.6	1.0	6.0	92.0	2384
12015	.3	*	.1	.6	1.9	1.0	1.1	.7	.4	1.4	7.4	92.6	2611
18021	.1	*	.0	.4	1.3	1.1	.7	.6	.3	1.2	5.8	94.2	2318
TOT	19	3	6	55	136	129	90	49	37	119	703	8838	9541
PCT	.2	*	.1	.6	2.0	1.3	.9	.5	.4	1.2	7.1	92.9	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	< 1/2	1/2 < 1	1 < 2	2 < 5	5 < 10	10+	TOTAL OBS
00003	.3	.2	.3	3.1	16.0	50.1	2103
06009	.4	.2	.8	3.8	15.7	79.0	2275
12015	.2	.3	.4	3.6	17.3	78.2	2485
18021	.2	.1	.2	3.0	17.3	79.1	2199
TOT	22	21	36	294	1474	7215	9062
PCT	.3	.2	.4	3.4	16.6	79.1	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR  
CEILING HGT (FEET, NH > 478) BY HOUR

HOUR (GMT)	< 150 < 50YD	< 600 < 1	< 1000 < 5	1000+ ANO 5+	NH < 578 ANO 5+	TOTAL OBS
00003	.2	.6	4.4	6.5	89.1	2103
06009	.4	1.0	6.1	6.4	87.6	2275
12015	.2	.7	5.1	5.9	89.0	2485
18021	.2	.5	4.1	5.2	90.7	2199
TOT	23	63	433	566	8063	9062
PCT	.3	.7	4.9	6.0	89.1	100.0

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TEMP F	PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP										TOTAL OBS	PCT FREQ	PERCENT FREQUENCY OF WIND DIRECTION BY TEMP										VAR	CALC	
	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	N	NE			E	SE	S	SW	W	NW							
100/100	0	0	0	0	1	1	0	0	2	12	2	0	0	0	0	1	0	0	0	0	0	0	0	0	0
95/79	0	0	0	0	1	9	0	0	3	256	3	0	0	0	0	1	0	0	0	0	0	0	0	0	0
90/54	0	0	0	0	2	7.2	1.1	1.1	3	1453	18	2	0	0	0	1.3	0	0	0	0	0	0	0	0	2.0
85/89	0	0	0	0	4	5.7	1.3	1.3	5	1407	19.5	1	1.6	0	0	6.5	0	0	0	0	0	0	0	0	2.4
80/84	0	0	0	0	1	3.3	1.3	1.3	2	1019	13	0	0	0	0	4.4	0	0	0	0	0	0	0	0	1.6
75/79	0	0	0	0	2	4.2	1.1	1.9	0	948	12	0	0	0	0	3.9	0	0	0	0	0	0	0	0	1.2
70/74	0	0	0	0	3	4.0	1.3	1.3	0	1226	15	0	0	0	0	5.6	0	0	0	0	0	0	0	0	1.4
65/69	0	0	0	0	2	3.5	1.3	1.3	0	1086	14	0	0	0	0	5.9	0	0	0	0	0	0	0	0	0.8
60/64	0	0	0	0	1	1.1	0.9	1.5	0	394	4.8	0	0	0	0	2.5	0	0	0	0	0	0	0	0	0.3
55/59	0	0	0	0	1	0.1	0	0	0	28	0.3	0	0	0	0	0.2	0	0	0	0	0	0	0	0	0
50/54	0	0	0	0	0	0	0	0	0	10	0.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
45/49	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
40/54	0	0	0	0	0	2351	1606	687	0	7842	100.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35/49	0	0	20	90	2041	29.9	20.5	8.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30/20	0	0	2	11.8	250	20.5	8.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25/0	0	0	3	2.8	250	20.5	8.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20/0	0	0	0	0	250	20.5	8.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15/0	0	0	0	0	250	20.5	8.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/0	0	0	0	0	250	20.5	8.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/0	0	0	0	0	250	20.5	8.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0/0	0	0	0	0	250	20.5	8.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

TABLE 15

HOUR (GMT)	MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR								
	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
0000	100	85	83	78	73	70	43	78.0	2882
0100	103	90	87	81	75	72	38	81.7	3226
0200	105	92	89	82	75	72	44	81.5	3204
0300	100	86	84	79	73	71	44	78.9	3152
0400	105	90	87	80	74	71	44	79.6	12503

TABLE 16

HOUR (GMT)	PERCENT FREQUENCY OF RELATIVE HUMIDITY 8Y HOUR							TOTAL OBS
	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	
00303	.0	8.3	20.9	29.8	27.6	13.9	76	1972
06509	.0	16.1	26.8	30.3	20.0	6.9	72	2041
12115	.0	22.2	32.8	29.6	11.3	4.0	68	2213
18221	.0	10.8	22.5	30.4	25.4	10.9	75	2090
2407	.0	12.5	21.52	24.94	17.35	7.20	73	8316

AREA 0023 N. F. PERSIAN GULF  
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PERIOD: (PRIMARY) 1936-1971  
(OVER-ALL) 1864-1971

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEC F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)  
VS AIR-SEA TEMPERATURE DIFFERENCE (DEC F)

AIR-SEA TEMP DIF	41	45	49	53	57	61	65	69	73	77	81	85	89	93	TOT	H	NO FOG
14/16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	19	.0	.2
11/13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	79	.0	.8
9/10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	144	.0	1.5
7/8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	277	.1	2.8
6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	189	.1	2.0
5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	292	.1	3.2
4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	476	.2	5.2
3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	530	.1	6.0
2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	794	.1	9.0
1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	773	.1	8.7
0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1042	.1	11.9
-1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	877	.0	10.0
-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	799	.1	9.1
-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	63	.0	7.0
-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	501	.0	5.7
-5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	397	.0	4.5
-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	290	.0	3.3
-7/-8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	348	.0	4.1
-9/-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	151	.0	1.8
-11/-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	66	.0	.8
-14/-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	21	.0	.3
-17/-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	.0	.0
-20/-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	.0	.0
TOTAL	1	2	7	7	66	362	871	1099	967	851	907	1328	1420	546	8686	92	8508
PCT	.1	.1	.1	.1	.8	4.2	9.8	12.3	10.9	9.6	10.9	15.1	17.3	6.7	100.0	1.1	97.8



AREA 0023 N. E. PEPSTIAN GULF  
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TABLE 18

PERIOD: (PRIMARY) 1953-1971  
(OVER-ALL)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N										NE										48+	PCT
<1	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	
1-2	.8	1.4	*	.0	.0	.0	2.2	.4	1.7	.0	.0	.0	.0	1.1	.2	1.1	.0	.0	.0	.0	1.1	
3-4	.3	2.7	.6	.0	.0	.0	3.5	.2	1.1	.0	.0	.0	.0	1.3	.0	.0	.0	.0	.0	.0	1.3	
5-6	.0	.6	.5	.0	.0	.0	2.2	.0	.1	.5	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.3	
7	.0	.2	.7	.2	.0	.0	1.0	.0	.0	.1	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	
8-9	.0	.1	.1	.1	.0	.0	.3	.0	.0	.1	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	
10-11	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	*	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	1.1	5.0	2.9	.5	.0	.0	9.5	.6	1.8	.6	.0	.0	.0	3.0	.6	1.8	.6	.0	.0	.0	3.0	

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	.5	1.4	.0	.0	.0	.0	1.9	1.2	2.0	.1	.0	.0	.0	3.2	.4	2.0	.1	.0	.0	.0	.0	3.2
1-2	.2	1.6	.3	.0	.0	.0	2.0	.4	3.1	1.1	.0	.0	.0	4.7	.0	3.1	.0	.0	.0	.0	.0	4.7
3-4	.0	.4	.6	.0	.0	.0	1.0	.0	.9	1.8	.0	.0	.0	1.7	.0	.0	.0	.0	.0	.0	.0	1.7
5-6	.0	.0	.2	.0	.0	.0	.2	.0	.2	.4	.1	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0	.6
7	.0	.0	.1	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.1
8-9	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.7	3.4	1.1	.2	.0	.0	5.6	1.6	6.2	2.4	.2	.0	.0	10.4	.6	6.2	2.4	.2	.0	.0	.0	10.4

ANNUAL  
TABLE 18  
AREA 0023 N. E. PERSIAN GULF  
27.2N 51.0E

PERIOD: (PRIMARY)  
(OVER-ALL) 1963-1971

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.0	.9	*	.0	.0	.0	1.9	.8	1.3	.0	.0	.0	.0	2.3
1-2	.3	1.2	.2	.0	.0	.0	1.7	.1	.9	.1	.0	.0	.0	1.1
3-4	.0	.3	.4	.0	.0	.0	.9	.0	.5	*	.0	.0	.0	.5
5-6	.0	.1	.2	.0	.0	.0	.3	.0	*	*	*	.0	.0	.1
7	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-15	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.2	2.8	.8	.0	.0	.0	4.8	.9	2.8	.1	*	.0	.0	3.8

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.7	3.0	.1	.0	.0	.0	4.8	1.4	4.1	.1	.0	.0	.0	5.5
1-2	.4	2.2	.9	.0	.0	.0	6.5	.8	9.8	3.8	.0	.0	.0	14.4
3-4	.0	1.5	2.1	.1	.0	.0	3.7	.2	4.1	8.6	.9	.0	.0	13.9
5-6	.0	.4	1.4	.2	.0	.0	2.0	.0	1.0	5.4	1.0	.0	.0	7.4
7	.0	.0	.5	.3	.0	.0	.7	.0	.1	1.7	1.1	*	.0	2.9
8-9	.0	.0	*	*	.0	.0	.1	.0	.0	.1	.3	*	.0	.5
10-11	.0	.0	.0	.0	.0	.0	*	.0	.0	*	.2	.0	.0	.5
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.1
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.0	10.1	5.1	.6	.0	.0	17.9	2.3	19.0	19.8	3.9	.1	.0	45.2

PERIOD: (PRIMARY)  
(OVER-ALL) 1963-1971

ANNUAL

AREA 0023 N. E. PERSIAN GULF  
27.2N 51.8E

TABLE 18 (CONT)

WIND SPEED (KTS) VS SEA HEIGHT (FT)										TOT DBS
HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT			
<1	21.0	12.8	.3	.0	.0	.0	34.1			
1-2	2.6	21.5	6.1	.0	.0	.0	30.2			
3-4	.2	7.3	12.2	.9	.0	.0	20.7			
5-6	.0	1.6	7.1	1.3	.0	.0	10.0			
7	.0	.1	2.0	1.3	.0	.0	3.6			
8-9	.0	.0	.2	.6	.0	.0	.8			
10-11	.0	.0	.1	.3	.0	.0	.4			
12	.0	.0	.0	.2	.0	.0	.2			
13-16	.0	.0	.0	.0	.0	.0	.0			
17-19	.0	.0	.0	.0	.1	.0	.1			
20-22	.0	.0	.0	.0	.0	.0	.0			
23-25	.0	.0	.0	.0	.0	.0	.0			
26-32	.0	.0	.0	.0	.0	.0	.0			
33-40	.0	.0	.0	.0	.0	.0	.0			
41-48	.0	.0	.0	.0	.0	.0	.0			
49-60	.0	.0	.0	.0	.0	.0	.0			
61-70	.0	.0	.0	.0	.0	.0	.0			
71-86	.0	.0	.0	.0	.0	.0	.0			
87+	.0	.0	.0	.0	.0	.0	.0			
TOT PCT	23.8	43.4	28.0	4.7	.1	.0	100.0			2310

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	57+ TOTAL	MEAN HGT
<6	10.3	24.0	15.9	4.1	1.0	.3	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3734
6-7	.1	1.0	3.3	3.3	1.5	.4	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	666
8-9	.0	.2	.5	.7	.8	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	182
10-11	.0	.2	.1	.2	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	49
12-13	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	11
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4
INDEX	27.4	5.0	2.2	.0	.4	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2042
TOTAL	2157	2027	1483	612	263	31	38	19	6	1	0	0	0	0	1	0	0	0	0	5688
PCT	32.7	30.3	22.0	9.0	3.8	1.2	.6	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0

PERIOD: (PRIMARY) 1948-1971  
(OVER-ALL) 1908-1971

AREA 0023 N. E. PERSIAN GULF  
27.3N 51.7E

TABLE 20  
PERCENT FREQUENCY OF OCCURRENCE OF SEA TEMP (DEG F) BY MONTH

SEA TMP DEG F	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN	PCT
90+	.0	.0	.0	.0	.0	.0	.0	.7	.3	.0	.0	.0	9	.1
95/96	.0	.0	.0	.0	.0	.0	.3	6.5	3.3	.0	.0	.0	93	.9
93/94	.0	.0	.0	.0	.0	.6	4.4	24.1	12.9	1.4	.0	.0	393	3.6
91/92	.0	.0	.0	.0	.1	2.2	17.2	39.9	30.4	6.3	.0	.0	862	7.9
89/90	.0	.0	.0	.0	.3	9.8	32.3	17.9	29.9	20.7	.5	.0	987	9.1
87/88	.0	.0	.0	.0	1.5	19.9	23.6	7.0	11.1	27.7	1.0	.0	826	7.6
85/86	.0	.0	.0	.0	6.3	27.1	12.8	1.5	6.6	23.8	13.5	.2	809	7.4
83/84	.0	.0	.0	.2	14.5	23.0	4.7	1.2	4.7	11.9	22.2	.5	739	6.8
81/82	.0	.0	.0	2.0	24.2	11.5	2.9	1.0	.9	6.1	19.0	4.4	735	6.8
79/80	.0	.2	.7	5.7	23.9	4.7	1.3	.2	.0	1.1	16.8	12.8	609	5.6
77/78	1.2	.1	.9	10.8	14.5	1.2	.4	.0	.0	1.1	9.9	22.2	559	5.1
75/76	10.5	2.8	6.2	23.6	9.3	.0	.0	.0	.0	.6	3.4	22.3	712	6.3
73/74	19.8	10.8	17.2	28.5	3.5	.0	.0	.0	.0	.1	1.3	18.4	917	8.4
71/72	25.6	24.7	23.2	16.7	1.0	.0	.0	.0	.0	.3	.6	16.6	935	8.8
69/70	19.9	27.1	21.9	10.0	.1	.0	.0	.0	.0	.0	.6	5.1	793	7.3
67/68	9.6	15.6	14.5	1.6	.0	.0	.0	.0	.0	.0	.2	2.2	415	3.8
65/66	5.9	8.5	8.2	1.0	.0	.0	.0	.0	.0	.0	.1	.6	231	2.1
63/64	4.4	8.6	5.6	.0	.0	.0	.0	.0	.0	.0	.0	.6	182	1.7
61/62	2.5	.9	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	43	.4
59/60	.2	.6	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	9	.1
57/58	.0	1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	*
55/56	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
53/54	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
51/52	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
49/50	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
47/48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
45/46	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
43/44	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
41/42	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
39/40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
37/38	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
35/36	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
33/34	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
31/32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
29/30	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
27/28	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
25/26	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
23/24	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
21/22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
19/20	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
17/18	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
15/16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
13/14	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
11/12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
9/10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
7/8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
5/6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
3/4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
1/2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
TOTAL	854	902	1082	942	970	826	752	922	921	1034	855	820	10880	100.0
MEAN	70.7	69.4	70.2	74.0	80.2	85.2	88.4	91.3	90.0	86.7	81.4	75.4	80.1	

PERIOD: (PRIMARY) 1948-1971  
(OVER-ALL) 1908-1971

AREA 0023 N. E. PERSIAN GULF  
27.2N 51.7E

TABLE 21

PRESSURE (MB)

MO	0000	0300	0600	AVE	HOUR (GMT)					TOTAL CBS	EXTREMES		
					1200	1500	1800	2100	MEAN		HAX YEAR	QA HR	MIN YEAR QA HR
JAN	1016	1018	1020	1019	1018	1018	1019	1017	1018	956	1027	1964 20 06	1005 1965 10 18
FEB	1015	1017	1017	1015	1016	1015	1016	1015	1016	976	1025	1922 01 18	1006 1924 15 09
MAR	1013	1014	1014	1013	1013	1013	1014	1014	1014	1114	1025	1936 14 09	1000 1949 07 12
APR	1009	1010	1011	1011	1010	1009	1010	1010	1010	962	1020	1930 02 06	999 1936 20 00
MAY	1003	1006	1007	1007	1006	1005	1006	1006	1006	961	1034	1959 09 18	998 1936 26 12
JUN	1000	1002	1001	1002	1000	1001	1000	1001	1000	835	1010	1958 03 12	992 1936 15 12
JUL	996	997	997	998	997	995	997	998	997	789	1004	1953 17 09	986 1936 20 00
AUG	995	999	1000	999	999	998	999	999	999	956	1008	1953 26 06	991 1933 20 18
SEP	1003	1006	1005	1004	1004	1003	1004	1004	1004	819	1013	1913 29 06	995 1937 10 09
OCT	1011	1011	1013	1013	1011	1011	1012	1011	1012	1051	1019	1954 22 18	987 1931 06 06
NOV	1016	1015	1017	1016	1016	1015	1016	1015	1016	853	1023	1961 29 00	1007 1966 11 16
DEC	1017	1019	1019	1019	1017	1019	1018	1020	1018	918	1026	1965 22 06	1010 1924 23 12
ANN	1009	1011	1010	1010	1009	1009	1009	1010	1010	11190			
CBS	2361	204	2398	471	2634	332	2416	374					

PERCENTILES

MO	1%	5%	25%	50%	75%	95%	99%
JAN	1010	1012	1016	1019	1020	1024	1026
FEB	1007	1010	1014	1016	1018	1022	1024
MAR	1004	1007	1012	1014	1016	1019	1021
APR	1001	1004	1008	1010	1012	1015	1017
MAY	999	1001	1004	1006	1008	1011	1012
JUN	993	995	998	1000	1003	1006	1009
JUL	987	992	995	997	999	1002	1003
AUG	992	995	997	999	1001	1004	1006
SEP	996	999	1002	1004	1007	1010	1012
OCT	1003	1006	1010	1012	1014	1016	1018
NOV	1010	1012	1014	1016	1018	1021	1022
DEC	1011	1013	1016	1018	1020	1023	1025

JANUARY

PERIOD: (PRIMARY) 1953-1971  
(OVER-ALL) 1908-1971

AREA 0024 N. P. PERSIAN GULF  
27.0N 50.5E

TABLE 1

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	RAIN SHWR	ORZL	PRECIPITATION TYPE			HAIL	PCT FREQ PCPN AT DB TIME	TOTAL PCPN OBS	THOR LTNG	OTHER WEATHER PHENOMENA					TOTAL OBS
			FRZG	SNOW	OTHER					PCPN	FOG	SHOKE	DUST	NO	
N	.0	.0	.0	.0	.0	.0	.0	0	.0	.1	.5	.1	.1	17.6	112
NE	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.2	.0	.0	4.5	29
E	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.1	.0	.0	5.7	35
SE	.0	.0	.0	.0	.0	.0	.0	0	.2	.0	.5	.0	.0	12.7	81
S	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.1	.0	.5	1.9	38
SW	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.5	.0	.0	2.5	17
W	.2	.0	.0	.0	.0	.0	.5	2	.1	.1	.0	.0	.0	3.9	45
NW	.2	.0	.0	.0	.0	.0	.2	1	.1	.2	.5	.0	.0	55.9	226
VAR	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
CALM	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.2	.0	.0	4.2	27
TOT OBS	2	1	0	0	0	0	.5	5	2	2	14	.4	.4	589	614
TOT PCT	.3	.2	.0	.0	.0	.0	.5	.5	.5	.5	2.3	.7	.7	95.9	100.0

TABLE 2

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	RAIN SHWR	ORZL	PRECIPITATION TYPE			HAIL	PCT FREQ PCPN AT DB TIME	TOTAL PCPN OBS	THOR LTNG	OTHER WEATHER PHENOMENA					TOTAL OBS
			FRZG	SNOW	OTHER					PCPN	FOG	SHOKE	DUST	NO	
00003	.0	.0	.0	.0	.0	.0	.0	0	.8	.0	.6	2.4	.0	.0	125
06009	.6	.0	.0	.0	.0	.0	.6	1	.0	.0	.3	1.3	.6	.6	160
12015	.0	.0	.0	.0	.0	.0	.6	1	.0	.0	.0	5.0	1.7	.0	180
18021	.6	.0	.0	.0	.0	.0	.6	1	.6	.0	.0	1.2	.0	.0	161
TOT	2	1	0	0	0	0	.5	5	2	2	16	.6	.4	.0	624
PC	.3	.2	.0	.0	.0	.0	.5	.5	.5	.5	2.6	.6	.6	.0	95.7

PERIOD: (PRIMARY) 1953-1971  
(OVER-ALL) 1908-1971

JANUARY

AREA 0024 N. W. PERSIAN GULF  
27.0N 50.3E

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	00					03	06	09	12	15	18	21	
N	1.6	7.3	8.0	.9	.1	.0	120	18.0	11.3	18.8	25.0	17.6	11.5	19.5	37.5	18.2	2.2	
NE	.9	2.5	1.2	.0	.0	.0	30	4.6	7.5	5.0	.0	4.1	.0	4.0	18.8	5.8	4.3	
E	.8	3.7	1.3	.3	.0	.0	40	6.1	8.8	4.2	.0	2.5	1.5	6.7	.0	11.0	4.2	
SE	1.0	6.5	4.1	1.8	.0	.0	89	13.4	11.6	13.3	10.0	8.9	17.3	13.5	12.5	16.3	21.7	
S	.5	3.0	2.4	.1	.0	.0	40	6.0	9.9	7.5	.0	7.6	5.8	7.0	.0	3.8	.0	
SW	.2	2.0	.5	.1	.0	.0	18	2.8	7.6	4.0	.0	2.5	1.9	2.8	.0	2.4	4.3	
W	1.2	3.3	2.5	.4	.0	.0	51	7.7	9.7	7.1	22.5	10.9	13.5	5.8	3.3	5.3	6.5	
NW	1.3	14.7	17.7	2.5	.4	.0	244	36.6	12.6	33.7	32.5	38.8	34.5	37.4	25.0	33.9	56.5	
VAR	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	4.8	287	253	40	4	3	32	4.8	10.6	6.3	10.0	7.2	3.8	3.4	.0	3.4	.0	
TOT OBS	83	43.0	37.9	6.0	.6	.3	667	100.0		126	10	152	26	176	8	146	23	
TOT PCT	12.4									100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)						41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-6	7-16	17-27	28-40	41+	TOTAL OBS					00	03	06	09	12	15	18	21
N	4.2	10.9	2.7	.5	.0	120	.0	18.0	11.3	19.3	19.3	16.7	20.2	16.0				
NE	2.5	1.9	.0	.0	.0	30	.0	4.6	7.5	4.6	4.6	3.5	4.6	5.6				
E	2.8	2.6	.0	.0	.0	40	.0	6.1	8.8	3.9	3.9	3.8	6.4	10.1				
SE	3.0	7.7	2.3	.4	.0	89	.0	13.4	11.6	13.1	10.1	10.1	13.5	17.0				
S	2.3	2.8	1.0	.0	.0	40	.0	6.0	9.9	7.0	7.0	7.3	6.7	3.3				
SW	1.5	1.0	.3	.0	.0	18	.0	2.8	7.6	5.7	5.7	2.4	2.7	2.7				
W	2.8	3.6	1.7	.1	.0	51	.0	7.7	9.7	8.3	8.3	11.2	5.5	5.5				
NW	6.6	20.8	8.3	.8	.0	244	.0	36.6	12.6	33.6	33.6	38.2	36.8	37.0				
VAR	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0				
CALM	4.8	342	110	11	1	32	.0	4.8	10.6	6.6	6.6	6.7	3.3	3.0				
TOT OBS	203	51.3	16.3	1.6	.1	667		100.0		136	136	178	184	160				
TOT PCT	30.4							100.0		100.0	100.0	100.0	100.0	100.0				

PERIOD: (PRIMARY) 1953-1971  
(OVER-ALL) 1908-1971

JANUARY

AREA 0024 N. W. PERSIAN GULF  
27.0N 50.3E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				PCT FREQ	TOTAL OBS
				11-21	22-33	34-47	48+		
0003	5.6	5.1	45.6	36.0	6.6	.0	.0	10.3	136
0609	5.7	8.4	40.4	38.2	6.2	.0	.0	10.2	178
1215	3.3	7.1	42.4	40.8	5.4	1.1	.0	11.3	184
1821	3.0	9.5	44.4	36.1	5.9	1.2	.0	10.6	169
TOT	32	51	287	253	40	4	.0	10.6	667
PCT	4.8	7.6	43.0	37.9	6.0	.6	.0	100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)  
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & DBSCD	TOTAL OBS	MEAN CLOUD COVER	PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT) NH > 4/8										TOTAL OBS	
							AND OCCURRENCE OF NH < 5/8 BY WIND DIRECTION											
N	11.8	2.1	3.2	1.5	108	2.2	.1	.0	.0	.1	.6	.7	.2	.0	.6	1.0	15.1	108
NE	2.0	.8	.7	.6	24	3.1	.0	.0	.0	.0	.0	.9	.0	.0	.2	.1	2.9	24
E	2.7	1.0	1.1	1.0	34	3.4	.0	.0	.0	.0	.0	1.0	.0	.0	.5	.2	4.1	34
SE	8.4	.8	2.5	1.4	77	2.5	.0	.0	.0	.0	.2	1.3	.2	.3	.3	.4	10.3	77
S	2.9	.9	2.1	.4	37	3.4	.0	.1	.0	.0	.0	.4	.2	.2	.3	.3	4.7	37
SW	1.9	.1	.4	.5	17	2.7	.0	.0	.0	.0	.0	.3	.2	.2	.0	.0	2.1	17
W	5.4	.6	.9	.6	43	2.0	.0	.0	.0	.0	.2	.4	.1	.0	.3	.1	5.4	43
NW	25.5	4.8	3.6	2.9	215	1.9	.1	.0	.3	.0	1.0	1.0	.9	.3	.4	1.2	31.5	215
VAR	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
CALM	3.1	.7	.3	.5	27	2.3	.0	.0	.0	.0	.2	.2	.2	.0	.0	.0	3.9	27
TOT OBS	373	68	87	57	585	2.3	1	1	2	2	14	37	13	6	16	19	474	585
TOT PCT	43.8	11.6	14.9	9.7	100.0		.2	.2	.3	.3	2.4	6.3	2.2	1.0	2.7	3.2	81.0	100.0



PERIOD: (PRIMARY) 1953-1971  
(OVER-ALL) 1908-1971

JANUARY

AREA 0024 N. W. PERSIAN GULF  
27.0N 50.3E

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE  
OF CEILING HEIGHT (NH >4/8) AND VSBY (NH)

CEILING (FEET)	OR >10	OR >5	OR >2	OR >1	VSBY (NH) OR >1/2	OR >1/4	OR >50YD	OR >0
OR >6500	3.2	5.9	5.9	5.9	5.9	5.9	5.9	5.9
OR >5000	3.4	7.1	7.1	7.1	7.1	7.1	7.1	7.1
OR >3500	4.7	9.2	9.2	9.2	9.2	9.2	9.2	9.2
OR >2000	6.6	15.3	15.3	15.3	15.3	15.3	15.3	15.3
OR >1000	7.6	17.6	17.6	17.6	17.6	17.6	17.6	17.6
OR >500	7.7	17.8	17.8	17.8	17.8	17.8	17.8	17.8
OR >300	8.1	18.2	18.2	18.2	18.2	18.2	18.2	18.2
OR >150	8.1	18.5	18.5	18.5	18.5	18.5	18.5	18.5
OR >0	8.1	18.7	18.7	18.7	18.7	18.7	18.7	18.7
TOTAL	48	109	111	112	112	112	112	112

TOTAL NUMBER OF OBS: 595

PCT FREQ NH <5/8: 81.2

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	9	TOTAL
56.3	6.7	8.4	5.4	5.4	4.4	2.0	6.1	2.6	7.9	.2	608

PERIOD: (PRIMARY) 1953-1971  
(OVER-ALL) 1908-1971

JANUARY

AREA 0024 N. W. PERSIAN GULF  
27.0N 50.3E

TABLE 8  
PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF  
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP .0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	ND PCP .0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT % .0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1/2<1	PCP .0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	ND PCP .0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT % .0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1<2	PCP .0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	ND PCP .1	.0	.0	.0	.0	.0	.0	.1	.0	.0	.2	.2
	TOT % .1	.0	.0	.0	.0	.0	.0	.1	.0	.0	.2	.2
2<5	PCP .0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	ND PCP .1	.0	.0	.0	.0	.0	.0	.4	.0	.0	.7	.7
	TOT % .1	.0	.0	.0	.0	.0	.0	.4	.0	.0	.7	.7
5<10	PCP .0	.0	.0	.0	.0	.0	.2	.2	.0	.0	.3	.3
	ND PCP 5.9	1.6	2.1	4.6	1.5	1.5	2.5	11.6	.0	.8	32.1	32.1
	TOT % 5.9	1.6	2.1	4.6	1.5	1.5	2.6	11.8	.0	.8	32.4	32.4
10+	PCP .0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.2	.2
	ND PCP 12.2	3.1	3.7	8.7	4.8	1.3	4.6	24.7	.0	3.6	66.6	66.6
	TOT % 12.2	3.1	3.7	8.7	4.8	1.3	4.8	24.7	.0	3.6	66.8	66.8
TOT OBS												614
TOT PCT	18.2	4.7	5.8	13.4	6.3	2.8	7.4	36.9	.0	4.4	100.0	

PERIOD: (PRIMARY) 1953-1971  
(OVER-ALL) 1908-1971

JANUARY

AREA 0024 N. W. PERSIAN GULF  
27.0N 50.3E

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED  
WITH VARYING VALUES OF VISIBILITY

VSBY (NH)	SPO KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.1	.0	.0	.0	.0	.0	.0	.1	.0	.0	.2	.2
	TOT %	.1	.0	.0	.0	.0	.0	.0	.1	.0	.0	.2	.2
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5<10	0-3	.4	.1	.2	.5	.0	.0	.5	.5	.0	.0	.0	.0
	4-10	3.2	.9	.6	2.1	.3	.9	.7	5.1	.0	.0	.0	.0
	11-21	2.0	.5	.9	1.2	1.1	.5	1.2	4.8	.0	.0	.0	.0
	22+	.0	.0	.3	.9	.1	.0	.0	.5	.0	.0	.0	.0
	TOT %	5.6	1.5	2.0	4.6	1.5	1.4	2.5	11.4	.0	.0	.0	.0
10+	0-3	.8	.8	.7	.5	.5	.2	.5	.7	.0	.0	.0	.0
	4-10	4.2	1.5	3.2	4.4	2.7	1.2	.6	9.9	.0	.0	.0	.0
	11-21	6.0	.7	.5	2.7	1.4	.0	1.5	12.9	.0	.0	.0	.0
	22+	.6	.0	.0	.9	.1	.1	.4	7.0	.0	.0	.0	.0
	TOT %	12.1	3.0	4.2	8.6	4.7	1.4	5.0	24.5	.0	.0	.0	.0
TOT OBS													649
TOT PCT		18.0	4.7	6.2	13.7	6.2	2.8	7.6	36.3	.0	4.6	100.0	

PERIOD: (PRIMARY) 1953-1971  
(OVER-ALL) 1908-1971

JANUARY

AREA 0024 N. W. PERSIAN GULF  
27.0N 50.3E

TABLE 10  
PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH > 4/8) AND  
OCCURRENCE OF NH < 5/8 BY HOUR

HOUR (GMT)	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NH < 5/8 ANY HGT	TOTAL OBS
00003	.0	.0	1.6	.0	1.6	4.1	.8	1.6	2.4	4.9	17.1	82.9	123
06009	.0	.6	.0	.0	2.6	7.8	3.9	.6	2.6	3.9	22.1	77.9	154
12015	.6	.0	.0	.6	1.7	8.0	1.1	2.3	4.0	2.3	20.5	79.5	176
18021	.0	.0	.0	.7	3.3	3.9	2.6	.0	1.3	2.0	13.7	86.3	153
TOT	1	1	2	2	14	37	13	7	16	19	112	494	606
PCT	.2	.2	.3	.3	4.3	6.1	2.1	1.2	2.6	3.1	18.5	81.5	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	< 1/2	1/2 < 1	1 < 2	2 < 5	5 < 10	10+	TOTAL OBS
00003	.0	.0	.0	.8	27.9	71.3	122
06009	.0	.0	.0	.7	34.9	64.5	152
12015	.0	.0	.5	1.2	33.7	64.5	172
18021	.0	.0	.0	.0	31.5	68.5	149
TOT	0	0	1	4	192	398	595
PCT	.0	.0	.2	.7	32.3	66.9	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) - AD FOR  
CEILING HGT (FEET, NH > 4/8), 8V HOUR

HOUR (GMT)	< 150 < 50V0	< 600 < 1	< 1000 < 5	1000+ AND 5+	NH < 5/8 AND 5+	TOTAL OBS
00003	.0	1.6	2.5	15.6	82.0	122
06009	.0	.7	1.3	21.7	77.0	152
12015	.6	.6	1.7	19.2	79.1	172
18021	.0	.0	.7	13.4	85.9	149
TOT	1	4	9	105	481	595
PCT	.2	.7	1.5	17.6	80.2	100.0

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PERIOD: (PRIMARY) 1953-1971  
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AREA 0024 N. W. PERSIAN GULF  
27.0N 50.3E

TABLE 13

		PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP										TOTAL		PCT	
TEMP F		0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	100	085	OBS		FREQ	
80/84	.0	.2	.0	.0	.2	.0	.4	.8	.0	.0	.0	8	1.7		
75/79	.0	.0	.0	.2	.4	.4	1.7	.8	.2	.0	.0	16	3.4		
70/74	.0	.0	.0	.2	.6	2.3	3.0	3.0	4.2	.0	.0	64	13.5		
65/69	.0	.4	.4	.4	4.0	8.5	11.6	11.2	8.0	.0	.0	209	44.2		
60/64	.0	.0	.0	.0	4.9	7.2	3.0	8.2	4.7	.0	.0	159	33.6		
55/59	.0	.0	.0	.0	.4	.4	.2	1.5	.6	.0	.0	15	3.2		
50/54	.0	.0	.0	.0	.0	.2	.0	.2	.0	.0	.0	2	.4		
TOTAL	.0	.3	.6	.6	5.0	9.0	11.0	12.2	8.4	.0	.0	473	100.0		
PCT	.0	.6	1.3	1.3	10.6	19.0	24.9	25.8	17.8						

TABLE 14

		PERCENT FREQUENCY OF WIND DIRECTION BY TEMP										TOTAL		PCT	
TEMP F		N	NE	E	SE	S	SW	W	NW	VAR	CALM	OBS		FREQ	
80/84	.0	.4	.0	.0	.2	.0	.0	.2	.3	.0	.0	8	1.7		
75/79	.0	.4	.0	.0	.5	.0	.2	.1	1.2	.0	.0	16	3.4		
70/74	.0	.5	.0	.0	3.8	.7	.3	.8	3.0	.0	.0	64	13.5		
65/69	.0	2.5	2.8	2.8	6.3	2.0	1.6	3.4	13.0	.0	.0	209	44.2		
60/64	.0	.8	.8	.8	2.8	1.5	.8	2.7	17.8	.0	.0	159	33.6		
55/59	.0	.1	.0	.0	.2	.0	.0	.5	1.6	.0	.0	15	3.2		
50/54	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	2	.4		
TOTAL	.0	.77	.21	.28	.65	.20	.14	.37	18.5	.0	.0	473	100.0		
PCT	.0	.4.4	4.4	6.0	13.8	4.2	3.0	7.8	39.3	.0	.0				

TABLE 15

		MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR										TOTAL	
HOUR (GMT)		MAX	99%	95%	50%	5%	1%	MIN	MEAN	085	085	OBS	
0003	82	73	70	64	56	54	52	52	64.0	137	137	137	137
0609	76	73	74	67	60	55	53	53	66.6	178	178	178	178
1215	83	82	79	68	61	56	55	55	68.3	188	188	188	188
1821	75	74	71	65	60	58	56	56	65.3	171	171	171	171
TOT	83	80	74	66	59	55	52	52	66.2	674	674	674	674

TABLE 16

		PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR										TOTAL	
HOUR (GMT)		0-29	30-39	60-69	70-79	80-89	90-100	MEAN	085	085	085	OBS	
0003	.0	.0	10.6	13.8	24.5	26.6	24.5	79	94	94	94	94	94
0609	.0	.0	14.3	17.5	24.5	25.4	18.3	76	126	126	126	126	126
1215	.0	.0	17.0	23.7	23.0	23.7	12.6	73	135	135	135	135	135
1821	.0	.0	8.1	19.5	27.6	27.6	17.1	77	123	123	123	123	123
TOT	.0	.0	6.1	9.1	11.9	12.3	8.4	76	478	478	478	478	478

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PERIOD: (PRIMARY) 1953-1971  
(OVER-ALL) 1908-1971

AREA 0024 N. W. PERSIAN GULF  
27.0N 50.3E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)  
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP C/F	49 53		57 61		65 69		73 77		81 85		TCT	M FOG		WD FOG
	52	56	60	64	68	72	76	80	84	88		W	F	
14/16	.3	.0	.0	.0	.0	.0	.2	.7	.2		5	.0	.0	1.2
11/13	.0	.0	.0	.0	.0	.7	1.0	.7	.5		12	.0	.0	1.2
9/10	.0	.0	.0	.0	.7	.7	.0	.0	.0		6	.0	.0	1.4
7/8	.0	.0	.0	.5	1.2	.2	.0	.2	.0		9	.0	.0	2.2
6	.0	.0	.0	.5	1.0	.7	1.0	.2	.0		14	.0	.0	3.4
5	.0	.0	.0	.5	1.0	.0	.5	.2	.0		19	.0	.0	2.2
4	.0	.0	.0	.5	1.2	.7	.2	.0	.0		15	.0	.0	3.6
3	.0	.0	.0	1.4	1.7	2.2	.5	.0	.0		24	.2	.0	5.5
2	.0	.0	.0	1.0	1.9	2.2	1.4	.0	.0		36	.0	.0	8.7
1	.0	.0	.0	4.3	4.1	1.4	.7	.2	.0		48	.0	.0	11.6
0	.0	.0	.0	1.7	1.4	2.4	.0	.0	.0		24	.0	.0	5.8
-1	.0	.0	.0	2.7	3.1	2.9	.0	.0	.0		36	.0	.0	9.4
-2	.0	.0	.0	1.7	3.1	.0	.0	.0	.0		39	.0	.0	8.2
-3	.0	.0	.0	2.7	3.1	1.0	.0	.0	.0		24	.0	.0	6.5
-4	.0	.0	.0	3.1	4.1	.0	.0	.0	.0		19	.0	.0	4.6
-5	.0	.0	.0	2.7	3.1	.2	.0	.0	.0		19	.0	.0	4.1
-6	.0	.0	.0	2.4	1.4	.0	.0	.0	.0		17	.0	.0	3.1
-7/-8	.0	.0	.0	2.9	.0	.0	.0	.0	.0		13	.0	.0	1.0
-9/-10	.0	.0	.0	1.0	.5	.0	.0	.0	.0		4	.0	.0	4.1
-11/-13	.2	.2	1.2	1.0	.5	.0	.0	.0	.0		415	.0	.0	99.8
-14/-16	.0	.0	.0	.2	.0	.0	.0	.0	.0		100.0	.2		
TOTAL	1	.7	.28	125	147	.67	27	10	.3					
PCT	.2	1.7	6.7	30.1	35.4	16.1	6.5	2.4	.7					

PERIOD: (PRIMARY) 1963-1971  
 (OVER-ALL) 1963-1971

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AREA 0024 N. W. PERSIAN GULF  
 27.0N 50.3E

TABLE 18

POT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N				NE				PCT				
	1-3	4-10	11-21	22-33	34-47	48+	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.7	4.7	1.3	.0	.0	.0	.0	.4	.0	.0	.0	.0	.4
1-2	.0	3.0	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.7	7.8	2.6	.0	.0	.0	.0	.4	.4	.0	.0	.0	.9

HGT	E				SE				TOT PCT					
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	6.0	.0	.0	.0	.0	6.0	.0	6.5	.0	.0	.0	.0	6.5
1-2	.0	3.0	.0	.0	.0	.0	3.0	.0	5.6	1.7	.0	.0	.0	7.3
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.9	1.7	.0	.0	5.6
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.7	.0	.0	1.7
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	9.1	.0	.0	.0	.0	9.1	.0	12.1	5.6	3.4	.0	.0	21.1

PERIOD: (QUARTER)  
(OVER-ALL) 1963-1971

JANUARY  
TABLE 18

AREA 0024 N. W. PERSIAN GULF  
27.0N 50.3E

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.7	6.5	0	0	0	0	8.2	0	1.7	0	0	0	0	1.7
1-2	0	0	0	0	0	0	0	0	1.7	0	0	0	0	1.7
3-4	0	0	1.3	0	0	0	1.3	0	0	0	0	0	0	0
5-6	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8-9	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10-11	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13-16	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17-19	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20-22	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23-25	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26-32	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33-40	0	0	0	0	0	0	0	0	0	0	0	0	0	0
41-48	0	0	0	0	0	0	0	0	0	0	0	0	0	0
49-60	0	0	0	0	0	0	0	0	0	0	0	0	0	0
61-70	0	0	0	0	0	0	0	0	0	0	0	0	0	0
71-86	0	0	0	0	0	0	0	0	0	0	0	0	0	0
87+	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOT PCT	1.7	6.5	1.3	0	0	0	9.5	0	3.4	0	0	0	0	3.4

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.7	0	0	0	0	0	1.7	0	0	0	0	0	0	1.7
1-2	0	0	1.7	0	0	0	1.7	0	0	0	0	0	0	1.7
3-4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5-6	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8-9	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10-11	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13-16	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17-19	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20-22	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23-25	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26-32	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33-40	0	0	0	0	0	0	0	0	0	0	0	0	0	0
41-48	0	0	0	0	0	0	0	0	0	0	0	0	0	0
49-60	0	0	0	0	0	0	0	0	0	0	0	0	0	0
61-70	0	0	0	0	0	0	0	0	0	0	0	0	0	0
71-86	0	0	0	0	0	0	0	0	0	0	0	0	0	0
87+	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOT PCT	1.7	0	3.4	0	0	0	5.2	0	12.5	24.6	1.7	0	0	38.8



AREA 0024 N. W. PERSIAN GULF  
27.0N 50.3E

JANUARY

PLA1006 (PRIMARY)  
(OVER-ALL) 1963-1971

TABLE 18 (CONT)

HGT	WIND SPEED (KTS) VS SEA HEIGHT (FT)							TOT OBS
	0-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	12.7	27.0	4.8	.0	.0	.0	44.4	63
1-2	.0	19.0	3.5	.0	.0	.0	28.0	
3-4	.0	1.6	15.5	3.2	.0	.0	20.6	
5-6	.0	.0	1.6	1.6	.0	.0	3.2	
7	.0	.0	3.2	.0	.0	.0	3.2	
9-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	12.7	47.6	34.9	4.8	.0	.0	100.0	

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+ TOTAL	MEAN HGT	
<5	14.3	23.3	21.7	4.0	1.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	14.3	2
6-7	.0	.9	2.7	3.6	1.8	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	21	5
8-9	.0	.0	.4	.9	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6	4
10-11	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	2
12-13	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	3
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	1
INDET	15.2	4.5	2.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	49	1
TOTAL	66	66	60	19	11	1	0	0	0	0	0	0	0	0	0	0	0	0	0	223	2
PCT	29.6	29.6	26.9	8.5	4.9	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

FEBRUARY

AREA 0024 N. W. PERSIAN GULF  
27.0N 50.3E

PERIOD: (PRIMARY) 1953-1970  
(OVER-ALL) 1864-1970

TABLE 1

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	RAIN SHR	RAIN SHR	DRZL PCPN	PRECIPITATION TYPE			HAIL PCPN	PCT FREQ PCPN AT OB TIME	TOTAL PCPN OBS	THDR LTNG	OTHER WEATHER PHENOMENA				TOTAL OBS
				PRZG PCPN	SNOW PCPN	OTHER PCPN					FGG PCPN	SMOKE HAZE	BLWG BLWG	DUST DUST	NO SIG
N	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.1	.3	.2	.2	16.1
NE	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.2	.2	3.7
E	.2	.0	.0	.0	.0	.0	.0	.2	1	.2	.0	.2	.0	.0	7.1
SE	.2	.0	.0	.0	.0	.0	.0	.2	1	.2	.4	.7	.0	.0	15.9
S	.2	.2	.4	.0	.0	.0	.0	.9	4	.0	.0	.1	.0	.0	7.0
SW	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.1	.0	.0	2.9
W	.2	.0	.0	.0	.0	.0	.0	.2	1	.0	.0	.0	.0	.0	5.9
NW	.4	.0	.2	.0	.0	.0	.0	.7	3	.0	.3	1.2	.4	.4	28.3
VAR	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	5.9
TOT OBS	6	1	3	0	0	0	0	.0	10	.2	4	13	4	4	428
TOT PCT	1.3	.2	.7	.0	.0	.0	.0	2.2	.4	.4	.9	2.8	.9	.9	92.8

TABLE 2

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	RAIN SHR	RAIN SHR	DRZL PCPN	PRECIPITATION TYPE			HAIL PCPN	PCT FREQ PCPN AT OB TIME	TOTAL PCPN OBS	THDR LTNG	OTHER WEATHER PHENOMENA				TOTAL OBS
				PRZG PCPN	SNOW PCPN	OTHER PCPN					FGG PCPN	SMOKE HAZE	BLWG BLWG	DUST DUST	NO SIG
0000Z	3.1	.0	.0	.0	.0	.0	.0	3.1	3	.0	.0	1.0	.0	.0	95.9
0600Z	2.4	.8	.0	.0	.0	.0	.0	3.1	4	.0	2.4	4.7	1.6	1.6	88.2
1201Z	.0	.0	.7	.0	.0	.0	.0	.7	1	.0	.0	2.6	1.4	1.4	94.2
1802Z	.0	.0	1.8	.0	.0	.0	.0	1.8	2	1.8	.0	.9	.9	.9	93.8
TOT	6	1	3	0	0	0	0	2.2	10	.4	.8	13	5	5	442
PCT	1.3	.2	.5	.0	.0	.0	.0	2.2	.4	.4	.8	2.7	1.1	1.1	92.9

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PERIOD: (PRIMARY) 1953-1970  
(OVER-ALL) 1864-1970

AREA 0024 N. W. PERSIAN GULF  
27.0N 50.3E

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)										TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						18	21
	0-3	4-10	11-21	22-33	34-47	48+	00	03	06	09				12	15						
N	.7	8.9	5.2	.6	.1	.0	83	16.2	11.4	16.4	12.5	15.5	13.9	20.7	15.0	13.1	.0				
NE	.6	2.6	.5	.3	.0	.0	20	4.0	7.8	1.8	.0	4.8	.0	2.0	.0	4.2	.0				
E	1.1	5.8	1.8	.1	.1	.0	45	8.9	8.2	5.3	12.5	4.8	25.0	11.4	10.0	9.5	28.6				
SE	1.7	9.8	4.9	.9	.1	.0	89	17.3	9.8	15.4	25.0	13.2	16.7	16.4	10.0	22.2	57.1				
S	.4	4.6	2.7	.0	.0	.0	40	7.8	9.7	10.9	12.5	12.6	11.1	3.9	.0	5.2	.0				
SW	.9	2.3	.1	.0	.0	.0	16	3.2	5.8	4.0	.0	5.2	2.8	1.9	10.0	1.7	.0				
W	.8	2.0	1.3	.1	.0	.0	32	6.3	7.9	7.3	.0	10.6	.0	6.9	15.0	3.2	.0				
NW	1.2	11.5	16.2	1.8	.0	.0	153	30.7	12.9	28.8	37.5	28.4	30.6	30.4	40.0	35.0	14.3				
VAR	.0	.0	.0	.0	.0	.0	29	5.6	.0	.0	.0	.0	.0	.0	.0	.0	.0				
CALM	5.6	255	172	20	2	.0	515		10.0	10.1	.0	4.8	.0	4.3	.0	5.9	.0				
TOT OBS	66	49.8	33.4	2.7	.4	.0	215			99	4	125	18	134	10	118	7				
TOT PCT	12.8	49.8	33.4	2.7	.4	.0	100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0				

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)										41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)									
	0-6	7-16	17-27	28-40											00	03	06	09	12	15	18	21		
N	3.2	9.7	3.0	.4	.0	.0	83	16.2	11.4		.0				16.3	15.4	20.3	12.4						
NE	2.5	1.0	.4	.1	.0	.0	20	4.0	7.8		.0				1.7	4.2	5.6	4.0						
E	4.2	4.5	.0	.2	.0	.0	45	8.9	8.2		.0				5.6	7.3	11.3	10.6						
SE	6.4	8.3	2.3	.1	.0	.0	89	17.3	9.8		.0				15.8	13.6	16.0	24.2						
S	1.7	5.5	.7	.0	.0	.0	40	7.8	9.7		.0				10.9	12.4	3.6	4.8						
SW	2.1	1.0	.1	.0	.0	.0	16	3.2	5.8		.0				3.9	4.9	2.4	1.6						
W	2.9	2.8	.6	.0	.0	.0	32	6.3	7.9		.0				7.0	9.3	5.6	3.0						
NW	5.3	16.6	8.3	.6	.0	.0	158	30.7	12.9		.0				29.1	28.7	31.1	33.8						
VAR	.0	.0	.0	.0	.0	.0	29	.0	.0		.0				.0	.0	.0	.0						
CALM	5.6	254	174	20	2	.0	515	5.6	.0		.0				9.7	4.2	4.2	5.6						
TOT OBS	174	49.3	15.3	1.4	.0	.0	515		10.0		.0				103	143	144	125						
TOT PCT	33.8	49.3	15.3	1.4	.0	.0	100.0				.0				100.0	100.0	100.0	100.0						

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PERIOD (PRIMARY) 1953-1970  
(OVER-ALL) 1864-1970

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	11-21	22-23	34-47	48+	MEAN	PCT	TOTAL
										DBS
0000	9.7	4.9	53.1	29.1	2.9	.0	.0	9.1	100.0	103
0600	4.2	6.3	49.7	34.3	4.9	.7	.0	10.5	100.0	143
1200	4.2	6.9	50.7	34.0	3.5	.7	.0	10.1	100.0	144
1800	5.3	10.4	44.8	35.2	4.0	.0	.0	9.9	100.0	125
TOT	29	37	255	172	20	2	0	10.0		515
PCT	5.6	7.2	49.5	33.4	3.9	.4	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)  
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8-9	10-12	13-15	16-18	19-21	22-24	25-27	28-30	TOTAL
												DBS
N	10.5	2.0	2.7	1.2	73	2.4						73
NE	3.1	.4	.7	.2	13	2.1						19
E	3.5	.7	2.2	1.6	33	3.7						35
SE	8.7	1.6	4.3	1.9	73	3.0						73
S	3.7	1.6	1.8	.4	34	2.9						34
SW	2.1	.3	.7	.0	14	1.9						14
W	4.4	1.1	1.0	.2	29	1.4						29
NW	21.0	3.1	4.5	2.0	134	2.0						134
VAR	.0	.0	.0	.0	0	.0						0
CALM	5.9	.2	.0	.0	27	.4						27
TOT DBS	277	49	80	35	441	2.3						441
TOT PCT	62.8	11.1	18.1	7.9	100.0							

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT) NH > 4/8  
AND OCCURRENCE OF NH < 5/8 BY WIND DIRECTION

WIND DIR	000	149	150	299	300	599	600	1000	2000	3499	4999	5000	6499	7999	8000+	NH < 5/8	ANY HGT	TOTAL
																		DBS
N	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	.0	.2	.2	.2	.2	.2	.2	73
NE	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	.0	.0	.0	.0	.0	.0	.0	19
E	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	.0	.0	.0	.0	.0	.0	.0	35
SE	.0	.0	.0	.0	.0	.0	.0	.0	.7	.7	.0	.2	.2	.2	.2	.2	.2	73
S	.0	.0	.0	.0	.0	.0	.0	.0	1.0	1.0	.0	.0	.0	.0	.0	.0	.0	34
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	14
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	29
NW	.0	.0	.0	.0	.0	.0	.0	.0	.5	1.5	.2	.1	.2	.2	.2	.2	.2	134
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	27
TOT DBS	0	0	0	0	0	0	0	0	9	17	8	2	2	3	2	2	391	441
TOT PCT	.0	.0	.0	.0	.0	.0	.0	.0	2.0	3.9	1.8	.5	.7	.7	.7	1.4	32.7	100.0

PERIOD: (PRIMARY) 1953-1970  
(OVER-ALL) 1964-1970

FEBRUARY

AREA 0024 N. W. PERSIAN GULF  
27.0N 50.3E

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE  
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM),

CEILING (FEET)	OR >10	OR >5	OR >2	OR >1	OR >1/2	OR >1/4	OR >50YD	OR >0
OR >6500	.7	2.0	2.0	2.0	2.0	2.0	2.0	2.0
OR >5000	.7	2.4	2.4	2.4	2.4	2.4	2.4	2.4
OR >3500	1.5	4.2	4.2	4.2	4.2	4.2	4.2	4.2
OR >2000	3.5	7.5	8.0	8.0	8.0	8.0	8.0	8.0
OR >1000	5.3	9.5	10.0	10.0	10.0	10.0	10.0	10.0
OR >600	5.3	9.7	10.4	10.4	10.4	10.4	10.4	10.4
OR >300	5.5	10.2	10.8	10.8	10.8	10.8	10.8	10.8
OR >150	5.5	10.4	11.1	11.1	11.1	11.1	11.1	11.1
OR >0	5.8	10.6	11.3	11.3	11.3	11.3	11.3	11.3
TOTAL	26	44	51	51	51	51	51	51

TOTAL NUMBER OF OBS: 452

PCT FREQ NH <5/8: 24.7

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	TOTAL OBS
67.2	8.2	6.1	3.6	2.3	1.9	3.2	2.7	4.6	.2	475

FEBRUARY

AREA 0024 N. W. PERSIAN GULF  
27.0N 50.3E

PERIOD: (PRIMARY) 1953-1970  
(OVER-ALL) 1864-1970

TABLE 8  
PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF  
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NH)	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT OBS	15.6	4.0	7.8	17.6	7.9	3.0	6.3	30.9	.0	5.9	100.0	456

PERIOD: (PRIMARY) 1953-1970  
(OVER-ALL) 1864-1970

FELKUNAY

AREA 0024 N. W. PERSIAN GULF  
27.0N 50.3E

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED  
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPO KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
2<5	0-3	.0	.0	.2	.0	.0	.0	.2	.0	.0	.0	.4	.4
	4-10	.1	.2	.5	.1	.2	.0	.0	.5	.0	.0	1.6	.8
	11-21	.0	.0	.0	.4	.2	.1	.0	.6	.0	.0	.8	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.1	.2	.7	.1	.4	.1	.2	1.1	.0	.0	2.8	.0
5<10	0-3	.0	.2	.4	1.0	.4	.1	.2	.2	.0	3.4	5.9	5.9
	4-10	2.9	1.3	2.0	5.3	1.6	1.3	2.1	4.6	.0	.0	21.1	21.1
	11-21	1.2	.5	.4	1.4	1.1	.0	.6	5.5	.0	.0	10.5	10.5
	22+	.5	.2	.0	.2	.0	.0	.0	.6	.0	.0	1.4	1.4
	TOT %	4.6	2.1	2.7	7.9	3.0	1.4	2.8	10.8	.0	3.4	38.9	38.9
10+	0-3	.7	.4	.5	.7	.1	.2	.5	1.0	.0	2.0	6.3	6.3
	4-10	5.8	1.1	3.2	4.6	2.8	1.1	2.0	4.3	.0	.0	27.3	27.3
	11-21	5.0	.1	1.2	3.6	1.4	.8	.8	9.5	.0	.0	22.7	22.7
	22+	.2	.0	.0	.7	.1	.0	.0	1.0	.0	.0	2.0	2.0
	TOT %	11.7	1.6	4.5	9.6	4.4	1.9	3.3	19.3	.0	2.0	58.3	58.3
TOT OBS													494
TOT PCT		16.4	3.9	8.4	17.6	7.7	2.9	5.3	31.3	.0	5.5	100.0	

AREA 0024 N. W. PERSIAN GULF  
27.0N 50.3E

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH > 4/8) AND  
OCCURRENCE OF NH < 5/8 BY HOUR

MOUR	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	ANY	45/8	TOTAL
(CMT)	149	399	599	999	1999	3499	4999	6499	7999					DBS
00609	1.0	1.0	2.0	.0	1.0	5.1	1.0	.0	1.0	.0	12.2		87.8	98
06609	.0	.0	.0	1.6	2.4	3.2	.8	.0	.0	1.6	9.6		90.4	125
12615	.0	.0	.0	.0	3.7	1.5	2.2	.7	.7	2.2	11.2		88.8	134
18621	.0	.0	.0	.0	.0	6.7	2.7	.9	.9	.9	11.8		88.2	110
TOT	1	1	2	2	9	18	9	2	3	6	52		415	467
.957	.2	.2	.4	.4	1.9	3.5	1.7	.4	.6	1.3	11.1		88.9	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR  
CEILING HGT (FEET) (NH >4/8), BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<3	3<10	10+	TOTAL OBS	HOUR (GMT)	<\$150 >\$500	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
000003	.0	.0	.0	2.1	45.7	52.1	94	00003	1.1	4.3	6.4	6.4	87.2	94
000009	.0	.0	.0	3.3	42.1	54.5	121	00009	.0	.0	4.1	7.4	88.4	121
120015	.0	.0	.0	.0	36.1	65.9	129	12015	.0	.0	.0	11.6	88.4	120
180021	.0	.0	.0	1.9	38.9	59.3	108	18021	.0	.0	1.9	12.0	86.1	108
TOT	.0	.0	.0	.8	180	214	452	TOT	1	4	13	43	396	452
PCT	.0	.0	.0	1.8	39.8	58.4	100.0	PCT	.2	.9	2.9	9.5	87.6	100.0



FEbruary

PERIOD: (PRIMARY) 1953-1970  
(OVER-ALL) 1864-1970

AREA 0024 N. W. PERSIAN GULF  
27.0N 50.1E

TABLE 13

TEMP F	PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP										TOTAL OBS	PCT FREQ
	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	VAR		
80/84	.0	.0	.3	.0	.3	1.1	2.5	.0	.0	.0	6	1.6
75/79	.0	.0	.0	.5	1.4	1.3	2.5	1.1	1.1	.0	26	7.1
70/74	.0	.0	.0	1.1	3.0	4.4	5.2	5.2	5.2	.0	69	18.9
65/69	.0	.0	.0	1.9	6.0	1.0	12.0	10.7	10.7	.0	154	42.1
60/64	.0	.0	.5	2.2	5.9	1.5	4.6	5.7	5.7	.0	104	28.4
55/59	.0	.0	.0	.0	.3	.3	.8	.5	.5	.0	7	1.9
TOTAL	0	0	3	21	65	100	92	85	85	.0	366	100.0
PCT	.0	.0	.8	5.7	17.6	27.3	25.1	23.2				

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP										
N	NE	E	SE	S	SW	W	NW	VAR	CALM	
.5	.0	.5	.0	.0	.0	.0	.3	.0	.3	
1.4	1.1	.6	1.4	.6	.4	.0	1.1	.0	.3	
1.6	.7	2.9	3.5	1.1	.6	2.0	4.2	.0	2.2	
5.4	1.8	2.9	7.7	4.4	2.2	2.1	13.0	.0	1.4	
4.0	.4	1.1	4.9	2.7	.6	1.0	12.0	.0	1.6	
.5	.1	.0	.3	.2	.0	.0	.8	.0	.0	
4.0	1.5	2.9	6.5	3.3	1.4	2.2	11.5	.0	2.2	
13.4	4.1	8.1	17.8	9.0	3.8	6.2	31.5	.0	6.0	

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR										TOTAL OBS
HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	VAR	
0003	80	73	70	64	60	56	56	64.7	107	
0609	80	79	74	68	61	60	60	67.2	144	
1215	82	81	80	68	61	59	59	69.3	144	
1821	76	75	71	65	61	59	58	65.6	125	
TOT	82	80	76	66	60	58	56	66.5	520	

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR											TOTAL OBS
HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	VAR	
0003	.0	.0	.3	.8	12.5	23.5	28.8	12.5	82	.80	
0609	.0	.0	.0	7.8	17.6	23.4	26.5	15.6	77	.102	
1215	.0	.0	.0	10.3	19.6	33.6	22.4	14.0	75	.107	
1821	.0	.0	.0	2.2	20.2	25.8	23.6	18.0	50	.89	
TOT	0	0	0	24	67	106	95	46	78	.378	

PERIOD: (PRIMARY) 1953-1970  
(OVERALL) 1864-1970

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AREA 0024 N. W. PERSIAN GULF  
27-ON 50.3E

TABLE 17

PCT :REQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)  
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	57	61	65	69	73	77	81	TOT	M FOG	NO FOG
14/16	.0	.0	.0	.0	.0	.3	.0	1	.0	.3
11/13	.0	.0	.0	.3	.6	.3	.0	7	.0	2.2
9/10	.0	.0	.0	1.9	1.6	1.6	.0	8	.0	2.3
7/8	.0	.0	.0	.9	1.2	.0	.0	13	.0	4.0
6	.0	.0	.6	.9	.3	.0	.0	9	.0	4.8
5	.0	.0	.0	1.6	.9	.3	.0	7	.0	2.2
4	.0	.0	.0	2.2	.3	.0	.0	11	.0	4.4
3	.0	.3	.0	3.4	.9	.0	.0	9	.0	2.8
2	.3	1.2	2.2	3.7	.6	.0	.0	25	.3	7.8
1	.6	1.9	3.7	2.5	.0	.0	.0	29	.3	8.7
0	.0	.9	3.4	1.9	.3	.0	.0	28	.3	8.4
-1	.0	3.8	5.5	2.2	.6	.0	.0	34	.0	10.6
-2	.3	2.1	6.8	.6	.0	.0	.0	42	.0	13.0
-3	.3	2.3	2.8	.6	.0	.0	.0	21	.3	6.2
-4	.6	3.7	1.9	.0	.0	.0	.0	20	.0	6.2
-5	.9	3.7	1.2	.3	.0	.0	.0	20	.0	5.2
-6	.3	2.5	.6	.0	.0	.0	.0	11	.0	3.4
-7/-8	1.6	3.1	1.6	.0	.0	.0	.0	20	.0	6.2
-9/-10	.6	.9	.0	.0	.0	.0	.0	5	.0	1.6
-11/-13	.0	.6	.0	.0	.0	.0	.0	2	.0	.6
TOTAL	18	89	103	72	27	10	3	322	3	319
PCT	5.6	27.6	32.0	22.4	8.4	3.1	.9	100.0	.9	99.1

PERIOD: (PRIMARY)  
(OVER-ALL) 1963-1970

FEBRUARY

TABLE 18

AREA 0024 N. W. PERSIAN GULF  
27.0N 50.3E

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.1	4.9	0	0	0	0	6.0	1.1	5.5	0	0	0	0	6.6
1-2	0	3.0	1.1	0	0	0	4.1	0	2.5	0	0	0	0	2.5
3-4	0	3.3	1.6	0	0	0	4.9	0	0	0	0	0	0	0
5-6	0	0	1.9	0	0	0	1.9	0	0	0.3	0	0	0	0.3
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8-9	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10-11	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13-16	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17-19	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20-22	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23-25	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26-32	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33-40	0	0	0	0	0	0	0	0	0	0	0	0	0	0
41-48	0	0	0	0	0	0	0	0	0	0	0	0	0	0
49-60	0	0	0	0	0	0	0	0	0	0	0	0	0	0
61-70	0	0	0	0	0	0	0	0	0	0	0	0	0	0
71-86	0	0	0	0	0	0	0	0	0	0	0	0	0	0
87+	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOT PCT	1.1	11.3	4.7	0	0	0	17.0	1.1	8.0	0.3	0	0	0	9.3

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.1	3.6	0	0	0	0	4.9	1.1	11.8	0	0	0	0	12.9
1-2	0	0.8	0	0	0	0	0.8	0	0.3	0	0	0	0	1.4
3-4	0	0	1.1	0	0	0	1.1	0	0	2.2	0	0	0	2.2
5-6	0	0	0	0	0	0	0	0	0	0	1.1	0	0	1.1
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8-9	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10-11	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13-16	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17-19	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20-22	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23-25	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26-32	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33-40	0	0	0	0	0	0	0	0	0	0	0	0	0	0
41-48	0	0	0	0	0	0	0	0	0	0	0	0	0	0
49-60	0	0	0	0	0	0	0	0	0	0	0	0	0	0
61-70	0	0	0	0	0	0	0	0	0	0	0	0	0	0
71-86	0	0	0	0	0	0	0	0	0	0	0	0	0	0
87+	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOT PCT	1.1	4.7	1.1	0	0	0	6.9	2.2	12.1	2.2	1.1	0	0	17.6

PERIOD (PRIMARY)  
(OVER-ALL) 1963-1970

AREA 0024 N. W. PERSIAN GULF  
27.0N 50.3E

FEBRUARY  
TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	4.1	.0	.0	.0	.0	4.9	.5	2.5	.0	.0	.0	.0	3.0
1-2	.0	.8	.0	.0	.0	.0	.8	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.8	4.9	.0	.0	.0	.0	5.8	.5	2.5	.0	.0	.0	.0	3.0

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.6	4.9	.0	.0	.0	.0	6.6	2.5	9.6	.0	.0	.0	.0	12.1
1-2	.0	.0	.0	.0	.0	.0	.0	.0	5.8	4.4	.0	.0	.0	10.2
3-4	.0	.0	.0	.0	.0	.0	.0	.0	1.1	2.7	1.1	.0	.0	4.9
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.4	.0	.0	.0	4.4
7	.0	.0	.0	.0	.0	.0	.0	1.1	.0	.0	.0	.0	.0	1.1
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.1	.0	.0	1.1
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.6	4.9	.0	.0	.0	.0	6.6	3.6	16.5	11.5	2.2	.0	.0	33.8

FEBRUARY

AREA 0024 N. W. PERSIAN GULF  
27.0N 50.3E

PERIOD: (PRIMARY)  
(OVER-ALL) 1963-1970

TABLE 18 (CONT)

HGT	WIND SPEED (KTS) VS SEA HEIGHT (FT)							TOT OBS
	0-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	25.2	39.6	.0	.0	.0	.0	64.9	
1-2	.9	10.8	6.5	.0	.0	.0	16.2	
3-4	.0	3.6	5.3	.0	.0	.0	10.8	
5-6	.0	.0	5.4	.0	.0	.0	6.3	
7	.9	.0	.0	.0	.0	.0	.9	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	27.0	54.1	16.2	2.7	.0	.0	100.0	
							111	

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)																TOTAL	MEAN HGT		
	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	
<6	24.2	18.6	12.1	4.8	.9	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	142
6-7	.0	1.7	2.2	5.1	1.7	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	29
8-9	.0	.0	.0	.0	1.3	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5
10-11	.0	.0	.0	.0	.9	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3
12-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
INDET	17.7	1.7	2.2	.4	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	52
TOTAL	97	51	38	12	5	2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	231
PCT	42.0	22.1	16.5	11.7	5.2	2.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0

PERIOD: (PRIMARY) 1950-1971  
(OVER-ALL) 1870-1971

MARCH

AREA 0024 N. W. PERSIAN -ULF  
27.4N 50.1E

TABLE 1

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIRECTION	RAIN	RAIN SHWR	ORZL	PRECIPITATION TYPE			HAIL	PCT FREQ PCPN AT DB TIME	TOTAL PCPN OBS	THOR LTNG	OTHER WEATHER PHENOMENA				TOTAL OBS
				FRZG	SNOW	OTHER					FG	SMOKE	HAZE	BLWG	
N	.2	.0	.0	.0	.0	.0	.0	.2	1	.0	.3	.0	1.6	14.9	71
NE	.2	.0	.0	.0	.0	.0	.0	.2	1	.0	.2	.0	.0	4.8	22
E	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.2	.0	.0	5.6	25
SE	.7	.0	.0	.0	.0	.0	.0	.7	3	.0	.2	.0	.3	9.1	44
S	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	3.8	15
SW	.0	.0	.0	.0	.0	.0	.0	.1	0	.0	.0	.0	.0	2.0	9
W	.1	.0	.1	.0	.0	.0	.0	.1	1	.1	.0	.0	.2	6.9	30
NW	.1	.0	.0	.0	.0	.0	.0	.1	0	.0	.0	.0	.0	3.1	27.9
W	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	0	0
W	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.2	.0	.0	13.5	58
CALM	.6	.0	.0	.0	.0	.0	.0	.0	7	.0	.5	.0	.0	21	408
TOT OBS	1.5	.0	.2	.0	.0	.0	.0	1.7	1.7	.5	1.2	.0	.0	88.5	100.0

TABLE 2

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	RAIN	RAIN SHWR	ORZL	PRECIPITATION TYPE			HAIL	PCT FREQ PCPN AT DB TIME	TOTAL PCPN OBS	THOR LTNC	OTHER WEATHER PHENOMENA				TOTAL OBS
				FRZG PCPN	SNOW PCPN	OTHER PCPN					FG PCPN	SMOKE MO	HAZE PCPN	BLWG PCPN	
0000Z	.0	.0	1.1	.0	.0	.0	.0	1.1	1	1.1	1.1	2.3	3.4	30.8	87
0600Z	5.1	.0	.0	.0	.0	.0	.0	5.1	6	.0	2.6	4.3	3.4	84.6	117
1200Z	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	1.6	6.5	91.9	125
1800Z	.0	.0	.0	.0	.0	.0	.0	.0	0	1.1	2.2	3.2	6.5	87.1	93
TOT	6	.0	1	.0	.0	.0	.0	.0	7	2	6	12	21	372	420
PCT	1.4	.0	.2	.0	.0	.0	.0	1.7	1.7	.5	1.4	2.9	5.0	88.6	100.0

PERIOD: (PRIMARY) 1950-1971  
(OVER-ALL) 1970-1971

MARCH

AREA 0024 N. W. PERSIAN GULF  
27.4N 50.1E

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47	00					03	06	09	12	15	18	21
N	1.2	6.7	8.8	1.0	.2	.0	83	18.0	12.4	17.1	20.0	16.0	10.0	22.1	47.2	17.4	.0
NE	1.5	3.3	1.0	.3	.0	.0	23	5.1	9.1	5.9	.0	7.9	6.0	3.7	.0	5.1	.0
E	1.2	4.3	1.3	.0	.0	.0	31	6.9	7.1	2.9	.0	7.2	4.0	6.1	5.6	9.6	11.5
SE	1.5	7.3	2.8	.0	.0	.0	53	11.6	8.3	8.2	10.0	14.6	6.0	12.0	5.6	11.8	19.2
S	.8	2.9	.6	.0	.0	.0	20	4.3	7.9	4.7	.0	5.4	14.0	2.1	.0	4.5	.0
SW	.2	1.5	.3	.0	.0	.0	9	2.1	7.3	5.3	5.0	.0	.0	1.9	.0	1.6	7.7
W	1.2	4.7	1.5	.2	.0	.0	23	7.6	7.3	8.5	5.0	9.0	12.0	4.3	.0	8.7	11.5
NW	2.3	11.1	16.1	1.1	.2	.0	142	30.8	11.6	20.9	60.0	27.3	38.0	34.3	41.7	21.3	50.0
VAR	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	13.0	194	150	12	2	.0	63	13.6	.0	16.5	.0	12.6	12.0	11.6	.0	20.2	.0
TOT OBS	105	32.4	32.4	2.6	.4	.0	463	8.9	8.9	85	10	111	25	121	9	89	13
TOT PCT	22.7	41.9	32.4	2.6	.4	.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)						41+	TOTAL OBS	PCT FREQ	MEAN SPO	HOUR (GMT)						
	0-6	7-16	17-27	28-40	41+	00					03	06	09	12	15	18	21
N	4.0	9.6	3.9	.5	.0	83	.0	16.0	12.4	17.4	17.4	17.4	14.9	23.8	15.2	15.2	15.2
NE	1.9	2.7	.5	.0	.0	23	.0	5.1	9.1	5.3	5.3	5.3	7.2	3.5	4.4	4.4	4.4
E	4.2	2.5	.2	.0	.0	31	.0	6.9	7.1	2.6	2.6	2.6	6.6	7.4	9.6	9.6	9.6
SE	5.0	6.1	.5	.0	.0	53	.0	11.6	8.3	4.2	4.2	4.2	13.1	11.5	12.7	12.7	12.7
S	2.0	2.1	.2	.0	.0	20	.0	4.3	7.9	5.3	5.3	5.3	7.0	1.9	3.9	3.9	3.9
SW	1.1	1.0	.0	.0	.0	9	.0	2.1	7.3	8.2	8.2	8.2	.0	1.7	2.2	2.2	2.2
W	3.7	3.7	.2	.0	.0	35	.0	7.6	7.5	33.9	33.9	33.9	9.6	4.0	9.1	9.1	9.1
NW	7.1	16.9	6.2	.6	.0	142	.0	30.8	11.9	.0	.0	.0	29.2	34.8	25.0	25.0	25.0
VAR	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	13.6	206	54	5	.0	63	.0	13.6	.0	14.7	14.7	14.7	12.5	10.8	17.6	17.6	17.6
TOT OBS	198	44.4	11.7	1.1	.0	463	.0	100.0	8.9	95	95	95	136	133	102	102	102
TOT PCT	42.8	44.4	11.7	1.1	.0	100.0	.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

AREA 0024 N. W. PERSIAN GULF  
27.4N 50.1E

MARCH

PERIOD: (PRIMARY) 1950-1971  
(OVER-ALL) 1870-1971

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CAL4	1-3	4-10	11-21	22-33	34-47	10+	MEAN	PCT PREC	TOTAL OBS
0000	14.7	10.5	31.6	41.1	2.1	.0	.0	7.3	100.0	53
0600	12.5	10.3	44.1	30.9	2.2	.0	.0	8.6	100.0	136
1200	10.3	6.5	43.1	32.3	4.6	.0	.0	9.6	100.0	130
1800	17.5	6.9	47.1	26.5	1.0	1.0	.0	7.9	100.0	102
TOT	63	42	194	150	12	2	0	8.9		463
PCT	13.5	9.1	41.9	32.4	2.6	.4	.0		100.0	

TABLE 4

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, MH >478)  
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8-6	TOTAL OBS	MEAN CLOUD COVER	000 149	150 259	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8	ANY HGT	TOTAL OBS
N	8.9	1.4	3.4	3.6	61	3.2	.0	.0	.0	.3	.2	.7	.4	.2	.0	.3	15.2	61	
NE	2.3	.3	2.5	.4	19	3.7	.0	.0	.3	.0	.6	.1	.1	.1	.3	.0	4.1	19	
E	2.2	.3	2.5	.4	19	3.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.4	19	
SE	6.2	1.2	2.0	2.2	41	3.2	.0	.3	.0	.3	.0	.4	.1	.1	.4	.0	10.1	41	
S	3.2	.2	.8	.1	15	1.9	.0	.0	.0	.0	.0	.2	.2	.1	.1	.0	3.7	15	
SW	1.5	.0	.3	.8	9	3.3	.0	.0	.0	.0	.4	.1	.0	.0	.0	.0	2.2	9	
W	4.7	.9	.7	1.3	27	2.4	.0	.0	.0	.0	.6	.2	.0	.0	.3	.0	6.6	27	
NH	21.2	2.2	4.3	2.4	107	1.8	.0	.0	.3	.0	.8	.1	.3	.0	.6	.6	27.5	107	
VAR	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
CALM	10.7	1.4	3.4	.0	55	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	13.5	55	
TOT OBS	217	29	71	40	356	7.5	.0	.0	.0	.0	.6	.6	.4	.2	.8	.6	31.4	356	
TOT PC	61.0	7.9	19.9	11.2	100.0		.0	.3	.6	.6	3.1	1.7	1.1	.6	2.2	1.7	88.2	100.0	



PERIOD: (PRIMARY) 1950-1971  
(OVER-ALL) 1870-1971

MARCH

AREA 0024 N. W. PERSIAN GULF  
27.4N 50.1E

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE  
OF CEILING HEIGHT (NH > 4/8) AND VSBY (NH)

CEILING (FEET)	OR >10	OR >5	OR >2	OR >1	OR >1/2	OR >1/4	OR >0.01	OR >0
OR >6500	0.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8
OR >5000	1.1	4.7	4.7	4.7	4.7	4.7	4.7	4.7
OR >3500	2.2	5.8	5.8	5.8	5.8	5.8	5.8	5.8
OR >2000	2.2	7.1	7.4	7.4	7.4	7.4	7.4	7.4
OR >1000	4.1	10.4	10.7	10.7	10.7	10.7	10.7	10.7
OR >600	4.7	11.2	11.5	11.5	11.5	11.5	11.5	11.5
OR >300	4.9	11.8	12.1	12.1	12.1	12.1	12.1	12.1
OR >150	4.9	11.8	12.1	12.3	12.3	12.3	12.3	12.3
OR >0	4.9	11.8	12.1	12.3	12.3	12.3	12.3	12.3
TOTAL	18	43	44	45	45	45	45	45

TOTAL NUMBER OF OBS: 365

PCT FREQ NH <5/8: 87.7

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	9	TOTAL
72.3	5.2	4.5	3.1	2.6	2.6	3.4	1.6	4.7	0	382	

PERIOD: (PRIMARY) 1950-1971  
(OVER-ALL) 1870-1971

MARCH

AREA 0024 N. W. PERSIAN GULF  
27.4N 50.1E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF  
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
<1/2 NO PCP	.2	.0	.0	.0	.0	.0	.0	.2	.0	.2	.7	
TOT %	.2	.0	.0	.0	.0	.0	.0	.2	.0	.2	.7	
PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1 NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
PCP	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.2	
1<2 NO PCP	.4	.1	.0	.0	.0	.0	.0	.2	.0	.0	.7	
TOT %	.4	.1	.0	.2	.0	.0	.0	.2	.0	.0	1.0	
PCP	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.2	
2<5 NO PCP	.2	.1	.0	.2	.0	.2	.0	1.9	.0	.2	3.9	
TOT %	1.2	.1	.0	.5	.0	.2	.0	1.9	.0	.2	4.2	
PCP	.0	.2	.0	.2	.0	.0	.0	.0	.0	.0	.5	
5<10 NO PCP	1.0	1.7	1.7	3.6	2.5	.4	2.7	9.8	.0	11.6	36.9	
TOT %	1.0	2.0	1.7	3.9	2.3	.4	2.7	9.8	.0	11.6	37.4	
PCP	.2	.0	.0	.0	.0	.1	.2	1.1	.0	.0	.7	
10+ NO PCP	1.3	3.3	4.6	6.3	1.3	1.5	4.6	19.6	.0	2.2	55.9	
TOT %	1.5	3.3	4.6	6.3	1.5	1.7	4.9	19.7	.0	2.2	56.7	
TOT OBS												406
TOT PCT	17.4	5.5	6.3	10.9	3.1	2.3	7.6	31.0	.0	14.3	100.0	

PERIOD: (PRIMARY) 1950-1971  
(OVER-ALL) 1970-1971

MARCH

AREA 0024 N. W. PERSIAN GULF  
27.6N 50.1E

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED  
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPO KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.2	.0	.0	.0	.0	.0	.0	.2	.0	.0	.3	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.2	.0	.0	.0	.0	.0	.0	.2	.0	.2	.7	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	0-3	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.2	
	4-10	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.2	
	11-21	.2	.0	.0	.2	.0	.0	.0	.2	.0	.0	.7	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.3	.1	.0	.2	.0	.0	.2	.2	.0	.0	1.1	
2<5	0-3	.0	.0	.0	.2	.0	.0	.0	.0	.0	.5	.7	
	4-10	.2	.1	.2	.2	.0	.2	.0	.2	.0	.0	1.1	
	11-21	1.6	.0	.0	.0	.0	.0	.0	1.1	.0	.0	2.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.5	.0	.0	.5	
	TOT %	1.1	.1	.2	.5	.0	.2	.0	1.8	.0	.5	4.3	
5<10	0-3	.0	.0	.3	.5	.1	.0	.5	.7	.0	10.7	12.8	
	4-10	1.2	1.5	1.2	2.3	1.6	.4	1.7	2.7	.0	.0	12.5	
	11-21	1.5	.2	.4	1.0	.5	.0	.6	5.9	.0	.0	10.0	
	22+	.3	.1	.0	.0	.0	.0	.0	.1	.0	.0	.5	
	TOT %	3.0	1.8	1.9	3.7	2.2	.4	2.7	9.3	.0	10.7	35.8	
10+	0-3	.5	.5	1.0	.9	.7	.2	.9	1.7	.0	2.3	8.7	
	4-10	5.5	1.9	2.7	4.4	1.0	1.0	3.0	8.3	.0	.0	27.8	
	11-21	5.8	.5	1.0	1.5	.2	.2	.9	9.1	.0	.0	19.4	
	22+	1.0	.2	.0	.0	.0	.0	.2	.9	.0	.0	2.3	
	TOT %	12.8	3.1	4.7	6.8	1.9	1.5	5.0	19.9	.0	2.3	58.1	
TOT OBS		17.5	5.1	6.9	11.2	4.1	2.2	7.9	31.4	.0	13.7	106.0	439
TOT PCT													

PERIOD: (PRIMARY) 1950-1971  
(OVER-ALL) 1870-1971

MARCH

AREA 0024 N. W. PERSIAN GULF  
27.4N 50.1E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET/NH > 4.8) AND  
OCCURRENCE OF NH < 5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 399	600 999	1000 1999	2000 3499	3500 4999	5000 6499	8000+	TOTAL	NH < 5/8 ANY HCT	TOTAL OBS
00003	.0	.0	1.2	.0	4.8	1.2	1.2	.0	2.4	1.2	12.0	83
06003	.0	1.0	.0	2.0	2.0	3.0	2.0	1.0	2.0	3.0	15.8	101
12015	.0	.0	.9	.9	3.6	1.8	.0	1.8	.9	1.8	11.7	111
18021	.0	.0	.0	.0	2.4	.0	1.2	.0	3.5	.0	7.1	85
TOT	0	1	2	3	12	6	4	3	8	6	45	380
PCT	.0	.3	.5	.8	3.2	1.6	1.1	.8	2.1	1.6	11.8	88.2
												100.0

TABLE 11

PERCENT FREQUENCY VSEY (N : 8) BY HOUR

HOUR (GMT)	<1/2	1/241	1/2	2/3	5/10	10+	TOTAL OBS
00003	1.3	.0	.0	5.1	38.0	55.7	79
06009	.0	.0	1.0	3.1	38.5	57.3	96
12015	.0	.0	.0	2.8	31.8	65.4	107
18021	1.2	.0	.0	1.2	37.3	60.2	83
TOT	2	0	1	11	132	219	365
PCT	.5	.0	.3	3.0	36.2	60.0	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSEY (NH) AND/OR  
CEILING HCT (FEET/NH > 4/8) BY HOUR

HOUR (GMT)	<150 CEILING	<600 CEILING	<1000 CEILING	1000+ ANOS+	NH < 5/8 AND 5+	TOTAL OBS
00003	.0	2.5	7.6	11.4	81.0	79
06009	.0	1.0	6.3	12.5	81.3	96
12015	.0	.9	4.7	10.3	85.0	107
18021	.0	1.1	2.4	7.2	90.4	83
TOT	0	5	19	38	368	365
PCT	.0	1.1	5.2	10.4	84.4	100.0

PERIOD: (PRIMARY) 1950-1971  
(OVER-ALL) 1870-1971

MARCH

AREA 0024 N. W. PERSIAN GULF  
27.4N 50.1E

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.4	.7	.0	.0	.0	.0	3	1.1
85/89	.0	.4	.4	.0	1.4	.4	.0	.0	6	2.1
80/84	.0	.4	1.1	1.4	3.2	1.1	.0	.0	20	7.3
75/79	.0	.0	.0	.0	1.7	4.6	.7	.0	36	12.6
70/74	.0	.0	.0	1.4	3.9	12.6	8.4	4.6	89	31.2
65/69	.0	.0	.4	4.2	6.3	10.9	10.2	3.5	101	35.4
60/64	.0	.0	.4	2.8	2.3	1.4	2.1	1.4	30	10.5
TOTAL	.0	1	8	32	54	88	73	29	285	100.0
PCT	.0	.4	2.8	11.2	18.9	30.9	25.6	10.2		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
90/94	.0	.0	.0	.4	.0	.0	.0	.0	.0	.7
85/89	.0	.0	.0	.4	.0	.0	.0	.4	.0	1.4
80/84	1.1	.2	.2	.4	.0	.0	.4	.8	.0	3.2
75/79	.9	.8	1.0	2.6	.1	.2	.5	1.0	.0	4.6
70/74	5.0	1.7	3.1	3.8	.7	.8	2.5	8.2	.0	5.3
65/69	3.4	2.5	1.7	4.3	1.1	1.1	5.0	13.4	.0	2.5
60/64	1.2	.2	.4	.1	.0	.0	1.1	6.3	.0	.0
TOTAL	33	15	17	33	11	7	27	85	0	50
PCT	11.7	5.4	6.2	11.8	3.1	2.6	9.6	30.1	.0	17.5

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00203	77	76	74	67	60	59	59	67.1	93
05203	86	84	82	70	62	61	61	70.8	140
12215	92	91	86	71	64	61	60	72.1	131
18221	86	79	77	69	62	60	60	68.5	105
TOT	92	85	81	69	62	60	59	69.2	469

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00203	.0	10.2	15.3	22.0	35.6	16.9	77	59
05203	.0	20.2	16.9	40.4	14.6	7.9	71	89
12215	.0	19.5	26.8	32.5	17.1	3.7	70	82
18221	.0	3.0	35.4	25.4	43.3	14.9	80	67
TOT	0	42	55	93	77	30	74	297

PERIOD: (PRIMARY) 1950-1971  
(OVER-ALL) 1870-1971

MARCH

AREA 0024 N. W. PERSIAN GULF  
27.4N 50.1E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (OEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)  
VS AIR-SEA TEMPERATURE DIFFERENCE (OEG F)

AIR-SEA TMP DIF	57	61	65	69	73	77	81	85	89	92	TOT	W FOG	MO FOG
17/19	.0	.0	.0	.0	.0	.0	.0	.0	.7	.7	3	.0	1.0
14/16	.0	.0	.0	.0	.0	.0	.0	.3	1.0	.3	2	.0	1.7
11/13	.0	.0	.0	.0	.3	.0	.7	.3	.0	.0	4	.0	1.4
9/10	.0	.0	.0	.0	.0	.3	1.7	.0	.0	.0	6	.0	2.1
7/8	.0	.0	.0	.0	2.1	2.4	.7	.0	.0	.0	15	.0	5.2
6	.0	.0	.3	1.0	.7	1.3	.0	.0	.0	.0	18	.3	2.4
5	.0	.0	1.4	2.7	3.1	1.0	.0	.0	.0	.0	18	.0	6.2
4	.0	.0	.0	1.4	2.7	3.1	.0	.0	.0	.0	24	.0	8.2
3	.0	.3	.3	4.5	1.4	.7	.0	.0	.0	.0	21	.3	6.9
2	.0	.3	.3	4.1	1.3	.3	.0	.0	.0	.0	16	.0	5.5
1	.0	.7	4.5	5.5	1.4	.3	.0	.0	.0	.0	36	.0	12.4
0	.0	1.4	4.8	5.2	1.4	.0	.0	.0	.0	.0	37	.0	12.7
-1	.0	1.7	5.2	5.2	.7	.3	.0	.0	.0	.0	37	.0	12.7
-2	.0	.7	3.8	1.0	.7	.0	.0	.0	.0	.0	18	.3	5.8
-3	.0	1.0	3.1	1.0	.3	.0	.0	.0	.0	.0	16	.0	5.5
-4	.3	.3	2.3	.3	.0	.0	.0	.0	.0	.0	11	.3	3.4
-5	.0	.7	1.0	.7	.0	.0	.0	.0	.0	.0	7	.0	2.4
-6	.0	2.1	.3	.0	.0	.0	.0	.0	.0	.0	2	.0	.7
-7/-8	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	2	.0	.7
TOTAL	1	29	81	96	45	21	10	5	3	3	291	4	287
PCT	.3	10.0	27.8	28.0	15.5	7.2	3.4	1.7	1.0	1.4	100.0	1.4	98.0

AREA 0024 N. K. PERSIAN GULF  
27.4N 49.1E

**MARCH**

TABLE 19

PERIOD (PRIMARY) 1963-1971

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
41	0	2.1	0	0	0	0	3.0
1-2	0	4.8	4.5	0	0	0	9.3
3-4	0	0	2.4	0	0	0	3.2
5-6	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0
8-9	0	0	0	0	0	0	0
10-11	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0
13-16	0	0	0	0	0	0	0
17-19	0	0	0	0	0	0	0
20-22	0	0	0	0	0	0	0
23-25	0	0	0	0	0	0	0
26-32	0	0	0	0	0	0	0
33-40	0	0	0	0	0	0	0
41-48	0	0	0	0	0	0	0
49-60	0	0	0	0	0	0	0
61-70	0	0	0	0	0	0	0
71-86	0	0	0	0	0	0	0
87+	0	0	0	0	0	0	0
TOT PCT	0	6.9	6.9	0	0	0	106

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	SE	11-21	22-33	34-47	48+	PCT
<1	1.2	2.1	.0	.0	.0	.0	3.3	.0	.0	.0	.0	.0	5.7
1-2	.0	1.2	.0	.0	.0	.0	1.2	.0	.0	.0	.0	.0	2.4
3-4	.0	1.2	.0	.0	.0	.0	1.2	.0	1.2	.0	.0	.0	1.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CPT PCT	1.2	4.5	.0	.0	.0	.0	5.7	.0	1.2	.0	.0	.0	9.3

PERIOD: (PRIMARY)  
(OVER-ALL) 1963-1971

MARCH

AREA 0024, N. W. PERSIAN GULF  
27.4N 50.1E

TABLE 19

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
HGT														
<1	.0	2.7	.0	.0	.0	.0	2.7	.0	.6	.0	.0	.0	.0	.0
1-2	.0	.9	1.2	.0	.0	.0	2.1	.0	1.5	.0	.0	.0	.0	1.5
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	3.6	1.2	.0	.0	.0	4.8	.0	2.1	.0	.0	.0	.0	2.1

	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
HGT														
<1	.0	4.5	.0	.0	.0	.0	4.5	5.1	4.8	.0	.0	.0	.0	9.9
1-2	.0	.0	1.2	.0	.0	.0	1.2	.0	9.6	11.1	1.5	.0	.0	20.8
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.2	.0	.0	.0	8.7
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	9.6	.0	.0	.0	9.6
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.2	.0	.0	.0	1.2
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	4.5	1.2	.0	.0	.0	5.7	5.1	14.5	29.2	1.5	.0	.0	50.3



PERIOD: (PRIMARY)  
(OVER-ALL) 1963-1971

MARCH

AREA 0024 N. W. PERSIAN GULF  
27.4N 50.1E

TABLE 18 (CONT)

WIND SPEED (KTS) VS SEA HEIGHT (FT)										TOT OBS
HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT			
<1	38.5	15.1	.0	.0	.0	.0	54.0			
1-2	.8	15.1	11.9	.0	.0	.0	27.8			
3-4	.0	1.6	7.1	1.6	.0	.0	16.3			
5-6	.0	.0	6.3	.8	.0	.0	7.1			
7	.0	.0	.8	.0	.0	.0	.8			
8-9	.0	.0	.0	.0	.0	.0	.0			
10-11	.0	.0	.0	.0	.0	.0	.0			
12	.0	.0	.0	.0	.0	.0	.0			
13-16	.0	.0	.0	.0	.0	.0	.0			
17-19	.0	.0	.0	.0	.0	.0	.0			
20-22	.0	.0	.0	.0	.0	.0	.0			
23-25	.0	.0	.0	.0	.0	.0	.0			
26-32	.0	.0	.0	.0	.0	.0	.0			
33-40	.0	.0	.0	.0	.0	.0	.0			
41-48	.0	.0	.0	.0	.0	.0	.0			
49-60	.0	.0	.0	.0	.0	.0	.0			
61-70	.0	.0	.0	.0	.0	.0	.0			
71-86	.0	.0	.0	.0	.0	.0	.0			
87+	.0	.0	.0	.0	.0	.0	.0			
TOT PCT	39.7	31.7	26.2	2.4	.0	.0	100.0			126

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	13.2	27.6	12.0	3.4	.4	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	134
6-7	.0	1.3	2.1	2.1	.9	.4	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	17
8-9	.0	.0	.4	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3
12-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
INDET	26.1	3.4	2.6	2.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
TOTAL	92	76	40	20	3	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	81
PCT	39.3	32.5	17.1	6.5	1.3	.9	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	234
																					100.0

APRIL

PERIOD: (PRIMARY: 1952-1971  
(OVER-ALL) 1910-1971

AREA 0024 N. W. PERSIAN GULF  
27.2N 50.2E

TABLE 1

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	RAIN	RAIN SHR	DRIL	PRECIPITATION TYPE			HAIL	PCT FREQ PCPN AT DB TIME	TOTAL PCPN OBS	THOR LTNG	OTHER WEATHER PHENOMENA						TOTAL OBS
				FRZG PCPN	SNOW PCPN	OTHER PCPN					FOG PCPN	SMOKE NO	DUST BLWG	OUST BLWG	SIG SNOW	SEA	
N	.2	.0	.0	.0	.0	.0	.0	.2	1	.3	.2	.7	.6	.0	.0	14.9	80
NE	.0	.0	.0	.0	.0	.0	.0	.0	0	.3	.0	.0	.0	.0	.0	4.4	22
E	.0	.0	.0	.0	.0	.0	.0	.0	0	.4	.0	.3	.0	.0	.0	11.7	59
SE	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.4	.6	.1	.0	.0	12.2	63
S	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.1	.3	.0	.0	4.4	22
SW	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.2	.1	.0	.0	3.9	20
W	.0	.0	.0	.0	.0	.0	.0	.0	0	.2	.1	.3	.0	.0	.0	6.9	37
NW	.0	.0	.2	.0	.0	.0	.0	.2	1	.0	.5	1.5	1.7	.0	.0	24.3	134
VAR	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.4	.0	.0	.0	7.1	36
TOT OBS	1	0	1	0	0	0	0	.0	2	.6	.6	.20	.15	.0	.0	427	476
TOT PCT	.2	.0	.2	.0	.0	.0	.0	.4		1.3	1.3	4.2	3.2	.0	.0	89.7	100.0

TABLE 2

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	RAIN	RAIN SHR	DRIL	PRECIPITATION TYPE			HAIL	PCT FREQ PCPN AT DB TIME	TOTAL PCPN OBS	THOR LTNG	OTHER WEATHER PHENOMENA						TOTAL OBS
				FRZG PCPN	SNOW PCPN	OTHER PCPN					FOG PCPN	SMOKE NO	DUST BLWG	OUST BLWG	SIG SNOW	SEA	
0003	.0	.0	.0	.0	.0	.0	.0	.0	0	.2	.0	.8	1.7	.0	.0	92.3	120
0609	.8	.0	.8	.0	.0	.0	.0	1.6	2	.0	3.1	5.3	2.3	.0	.0	87.3	128
1215	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	1.5	5.3	6.1	.0	.0	87.0	131
1821	.0	.0	.0	.0	.0	.0	.0	.0	0	.9	.0	5.3	2.7	.0	.0	91.2	113
TOT	1	0	1	0	0	0	0	.4	2	.6	.6	.21	.16	.0	.0	441	492
PCT	.2	.0	.2	.0	.0	.0	.0	.4		1.2	1.2	4.3	3.3	.0	.0	89.6	100.0

APRIL

PERIOD: PRIMARY 1952-1971  
 (OVER-ALL) 1910-1971

AREA 0024 N. W. PERSIAN GULF  
 27.2M 50.2E

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						TOTAL OBS	PCT FREQ	MEAN SPO	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+				00	03	06	09	12	15	18	21
N	1.4	9.3	4.6	1.1	.1	.0	87	13.6	10.6	17.6	10.0	13.6	13.6	18.9	16.7	17.5	9.1
NE	1.7	2.6	1.1	.0	.0	.0	29	5.7	6.9	4.8	20.0	3.0	13.6	5.9	.0	17.7	.0
E	1.3	7.5	2.5	.0	.1	.0	60	11.5	8.4	7.5	.0	8.5	.0	14.6	.0	16.4	9.1
SE	1.8	7.6	3.0	.0	.1	.0	65	12.4	8.1	8.0	.0	11.2	4.5	13.3	.0	20.4	4.5
S	.2	3.2	1.3	.0	.0	.0	24	4.7	8.6	3.4	.0	7.2	2.3	6.6	.0	2.2	4.5
SW	.9	2.9	.5	.1	.0	.0	22	4.3	6.2	5.5	.0	7.6	2.3	3.0	.0	1.3	9.1
W	.8	5.7	1.9	.2	.0	.0	44	8.5	8.3	13.7	10.0	11.4	17.0	2.7	.0	5.5	9.1
NW	2.7	14.1	8.5	3.1	.1	.0	149	28.4	11.2	27.5	60.0	29.0	42.0	27.0	50.0	21.1	54.5
VAR	.0	.0	.0	.0	.0	.0	41	7.8	.0	10.1	.0	.0	.0	.0	.0	.0	.0
CALM	7.8	279	122	24	2	.0	524	100.0	8.7	119	5	118	22	132	3	114	11
TOT OBS	97	53.2	23.3	4.6	.4	.0				100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
TOT PCT	18.5																

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)						41+	TOTAL OBS	PCT		MEAN SPD	HOUR (GMT)					
	0-6	7-16	17-27	28-40	41+	FREQ			00	03		06	09	12	15	18	21
N	5.0	8.5	2.7	.3	.0	.0	87	16.6	10.6	17.3	13.6	13.6	18.9	16.8			
NE	3.4	2.0	.3	.0	.0	.0	29	5.7	6.9	5.4	4.6	4.6	5.7	17.0			
E	5.2	5.9	.2	.1	.0	.0	60	11.5	8.4	9.1	7.1	7.1	1.3	15.8			
SE	5.2	5.7	.5	.1	.0	.0	65	12.4	8.1	7.7	10.2	13.0	19.0				
S	1.8	2.9	.0	.0	.0	.0	24	4.7	8.6	3.2	6.4	6.4	6.5	2.4			
SW	3.3	.9	.0	.1	.0	.0	22	4.3	6.2	5.2	6.8	3.0	2.0				
W	5.7	4.6	.1	.1	.0	.0	44	8.5	8.3	13.3	12.3	2.6	5.3				
NW	6.8	14.1	4.9	.4	.0	.0	149	28.4	11.2	28.8	31.4	29.4	24.0				
VAR	.0	.0	.0	.0	.0	.0	41	.0	.0	.0	.0	.0	.0				
CALM	7.8	251	45	6	.0	.0	524	7.8	.0	9.7	7.9	6.7	7.2				
TOT OBS	221	47.6	8.2	1.1	.0	.0			8.7	124	140	135	125				
TOT PCT	42.2							100.0		100.0	100.0	100.0	100.0				

APRIL  
AREA 0024 N. W. PERSIAN GULF  
27.2N 50.2E

TABLE 4

PERIOD: (PRIMARY) 1952-1971  
(OVER-ALL) 1910-1971

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)											
HOUR	CALM	1-3			4-10			WIND SPEED (KNOTS)			PCT FREQ
		1-3	4-10	11-21	22-33	34-47	48+	MEAN			
0603	9.7	12.1	53.2	21.8	3.2	.0	.0	8.0	100.0		
0609	7.9	10.7	52.1	25.7	2.9	.7	.0	8.7	100.0		
2215	6.7	8.1	51.9	24.4	8.1	.7	.0	9.9	100.0		
0821	7.2	12.0	56.0	23.8	4.0	.0	.0	8.0	100.0		
1737	4.1	5.6	27.9	13.2	24	2	.0	8.7	100.0		
TOT	7.8	10.7	53.2	23.3	4.6	.4	.0		100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WIND DIR	PCT FREQ							TOTAL	
	0-2	3-4	5-7	8-10	11-15	16-20	21-25	OBS	
N	10.1	.8	4.5	2.4	76	3.0			
NE	3.8	.2	.5	.5	20	1.7			
E	9.3	.2	2.0	1.8	57	2.4			
SE	8.6	.8	1.0	2.8	56	2.7			
S	3.1	.5	.2	.7	19	1.9			
SW	3.8	.5	.2	.0	19	.7			
W	6.8	.0	.9	.2	33	1.1			
NW	19.1	2.0	3.4	1.9	111	1.7			
VAR	.0	.0	.0	.0	0	.0			
CALM	6.1	.2	.7	.9	34	1.6			
TOT OBS	303	21	58	47	429	2.1			
TOT PCT	70.6	4.9	13.5	11.0	100.0				

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT) NH 24/8) AND OCCURRENCE OF NH 45/8 BY 1/4 NC DIRECTION

WIND DIR	PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT) NH 24/8) AND OCCURRENCE OF NH 45/8 BY 1/4 NC DIRECTION									
	000	150	300	600	1000	2000	3500	5000	6500	8000+
N	.0	.0	.0	.0	.9	.2	1.0	.8	.9	13.2
NE	.0	.0	.0	.0	.1	.2	.0	.0	.1	4.4
E	.0	.0	.0	.0	.4	.4	.8	.0	.3	11.1
SE	.0	.0	.0	.0	.2	.5	.6	.2	.2	11.4
S	.2	.0	.0	.0	.0	.0	.2	.0	.0	4.1
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.4
W	.0	.0	.0	.0	.2	.2	.0	.2	.3	7.2
NW	.0	.0	.0	.0	.5	.0	.1	.2	.7	24.1
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.2	.2	.0	.0	.0	.0
TOT OBS	1	0	0	2	12	7	12	6	9	323
TOT PCT	.2	.0	.0	.2	2.8	1.6	2.8	1.4	2.9	86.9
TOTAL										100.0

PERIOD: (PRIMARY) 1952-1971  
(OVER-ALL) 1910-1971

APRIL

AREA 0024 N. W. PERSIAN GULF  
27.2N 50.2E

TABLE 7

CUMULATIVE PCT FREQ OR SIMULTANEOUS OCCURRENCE  
OF CEILING HEIGHT (MH >4/8) AND VSBY (NM)

CEILING (FEET)	OR >10	OR >5	OR >2	VSBY (NM) OR >1	OR >1/2	OR >1/4	OR >50YD	OR >0
OR >6500	.9	3.2	3.6	3.6	3.9	3.9	3.9	3.9
OR >5000	1.5	4.3	5.0	5.0	5.2	5.2	5.2	5.2
OR >3500	3.0	6.6	7.7	7.7	8.0	8.0	8.0	8.0
OR >2000	3.4	8.2	9.3	9.3	9.6	9.6	9.6	9.6
OR >1000	4.6	10.9	12.1	12.1	12.3	12.3	12.3	12.3
OR >600	4.8	11.2	12.3	12.3	12.5	12.5	12.5	12.5
OR >300	4.8	11.2	12.3	12.3	12.5	12.5	12.5	12.5
OR >150	4.8	11.2	12.3	12.3	12.5	12.5	12.5	12.5
OR > 0	4.8	11.2	12.3	12.3	12.5	12.5	12.5	12.5
TOTAL	21	49	54	54	55	55	56	56

TOTAL NUMBER OF OBSI 439

PCT FREQ MH <5/81 87.2

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHPS)

	0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
72.1	5.2	6.2	2.4	.9	2.1	4.5	.6	5.8	.2	466	

APRIL

PERIOD: (PRIMARY) 1952-1971  
(OVER-ALL) 1910-1971

TABLE 8

PERCENT FREO OR WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF  
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	N	NE	E	SE	S	SW	N	NW	VAR	CALM	PCT	TOTAL OBS
PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
ND PCP	.0	.0	.0	.2	.2	.0	.0	.0	.0	.0	.4	.4
TOT %	.0	.0	.0	.2	.2	.0	.0	.0	.0	.0	.4	.4
1/2<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
ND PCP	.2	.0	.0	.0	.0	.0	.0	.1	.0	.0	.2	.2
TOT %	.2	.0	.0	.0	.0	.0	.0	.1	.0	.0	.2	.2
1<2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
ND PCP	.3	.0	.0	.3	.1	.1	.3	.3	.0	.0	1.3	1.3
TOT %	.3	.0	.0	.3	.1	.1	.3	.3	.0	.0	1.3	1.3
2<5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
ND PCP	.3	.1	.0	.5	.1	.0	.0	1.9	.0	.0	3.2	3.2
TOT %	.3	.1	.0	.5	.1	.0	.0	1.9	.0	.0	3.2	3.2
5<10	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2
ND PCP	8.5	2.4	7.9	5.5	2.6	1.9	3.3	12.0	.0	4.2	48.5	48.5
TOT %	8.7	2.4	7.9	5.5	2.6	1.9	3.3	12.0	.0	4.2	48.5	48.5
10+	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2	.2
ND PCP	7.3	2.2	4.5	6.8	1.7	2.2	4.5	13.7	.0	3.4	46.4	46.4
TOT %	7.3	2.2	4.5	6.8	1.7	2.2	4.5	13.7	.0	3.4	46.4	46.4
TOT OBS	16.9	4.7	12.4	13.3	4.6	4.2	7.8	23.3	.0	7.6	100.0	476

PERIOD: (PRIMARY) 1952-1971  
(OVER-ALL) 1910-1971

APRIL

AREA 0024 N. W. PERSIAN GULF  
27.2N 50.2E

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED  
WITH VARYING VALUES OF VISIBILITY

VSRY (NH)	SPO KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.2	.2	.0	.0	.0	.0	.0	.4	.4
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.2	.2	.0	.0	.0	.0	.0	.4	.4
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2
1<2	0-3	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	.2	.2
	4-10	.1	.0	.0	.2	.0	.0	.0	.1	.0	.0	.4	.4
	11-21	.2	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2	.2
	22+	.0	.0	.0	.0	.0	.1	.1	.0	.0	.0	1.2	1.2
	TOT %	.3	.0	.0	.3	.1	.1	.1	.3	.0	.0	2.8	2.8
2<5	0-3	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.2	.2
	4-10	.3	.1	.0	.1	.1	.0	.0	.0	.0	.0	.6	.6
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.3	.0	.0	.0	.0	.0	.0	1.4	.0	.0	2.0	2.0
	TOT %	.6	.1	.0	.3	.1	.0	.0	2.0	.0	.0	3.5	3.5
5<10	0-3	.0	.4	.5	.4	.0	.2	.2	.6	.0	3.9	6.1	6.1
	4-10	.9	.9	.1	3.4	1.6	1.4	.9	6.1	.0	.0	25.5	25.5
	11-21	3.1	.9	.1	1.3	.6	.2	.8	3.8	.0	.0	12.7	12.7
	22+	.1	.0	.0	.0	.0	.0	.0	.8	.0	.0	1.0	1.0
	TOT %	8.1	2.2	7.4	5.1	2.5	1.8	2.9	11.3	.0	3.9	45.3	45.3
10+	0-3	1.5	1.3	1.0	1.1	.1	.7	.5	2.1	.0	3.3	11.6	11.6
	4-10	4.3	1.4	2.3	3.7	1.0	1.4	3.5	8.3	.0	.0	26.3	26.3
	11-21	1.3	.2	.7	1.6	.6	.2	1.1	4.1	.0	.0	9.8	9.8
	22+	.6	.0	.1	.8	.0	.0	.1	.8	.0	.0	1.8	1.8
	TOT %	7.7	2.9	4.4	6.3	1.7	2.3	5.2	15.2	.0	3.3	49.4	49.4
TOT OBS		17.1	5.2	11.8	12.6	4.6	4.2	8.3	28.9	.0	7.3	100.0	510
TOT PCT													

AREA 0024 N. W. PERSIAN GULF  
27.2N 50.2E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH > 4/8) AND  
OCCURRENCE OF NH < 5/8 BY HOUR

4-DIGIT	000	100	200	300	400	500	600	700	800	900	1000	2000	3000	4000	5000	6000	7000	8000+	TOTAL	ANY	45/8	TOTAL
(CNT)	149	199	299	399	499	599	699	799	899	999	1099	2099	3099	4099	5099	6099	7099	8000+	TOTAL	ANY	45/8	TOTAL
000003	.0	.0	.0	.0	.0	.0	.9	2.6	.9	1.8	.9	1.8	.9	1.8	.9	1.8	.9	.9	9.6		90.4	114
000009	.0	.0	.0	.0	.0	.0	.0	1.8	.0	2.7	1.8	.0	1.8	1.8	1.8	1.8	1.8	1.8	9.7		90.3	113
12015	.8	.0	.0	.0	.0	.0	.0	3.3	1.6	4.1	1.6	2.5	4.9	18.9	81.1	122					81.1	122
18021	.0	.0	.0	.0	.0	.0	.0	2.7	3.6	1.8	.9	.9	.9	.9	.9	.9	.9	.9	9.9		99.1	111
TOT	1	0	0	0	1	12	7	12	7	12	6	8	9	56	404	460					404	460
PCT	.2	.0	.0	.0	.2	2.6	1.3	2.6	1.3	1.7	1.3	1.7	2.0	12.2	87.8	100.0					87.8	100.0

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PERCENT FREQUENCY VS BY (NM) BY HOUR

HOURLY (GMT)	<1/2	1/2<1	1<2	2<3	3<10	10+	TOTAL OBS
000003	.0	.0	.0	1.9	46.3	51.9	108
000609	.0	.0	1.0	2.9	50.5	45.6	103
112615	1.7	.0	.0	3.3	48.3	45.8	120
180221	.0	.0	.9	1.7	50.9	46.3	108
TOT	2	1	2	11	215	208	439
PCT	.5	.2	.5	2.5	49.0	47.4	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VS8Y (NH) ANO/DR  
CEILING HGT (FEET,NH 24/8),8Y HOUR

HRUR (GMT)	<130 <50VD	<600 <1	<1000 <5	1000+ AND 3+	NH 45/5 AND 3+	TOTAL OBS
00003	.0	.0	2.8	9.3	88.0	108
06009	.0	.0	3.9	8.7	87.4	103
12015	.8	2.5	5.6	15.0	79.2	120
18021	.0	.0	2.8	10.2	87.0	108
TOT	1	3	17	48	374	439
PCT	.2	.7	3.9	10.9	85.2	100.0



APRIL

PERIOD: (PRIMARY) 1952-1971  
(OVER-ALL) 1910-1971

AREA: 024 N. W. PERSIAN GULF  
27.2N 50.2E

TABLE 15

		PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP										TOTAL	
TEMP F		0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100			OBS	PCT FREQ
50/84	.0	.0	.0	.0	.2	.2	.0	.0	.0	.0	.0	7	1.7
83/89	.0	.0	.0	.7	1.2	1.0	1.0	1.2	.2	.2	.2	18	4.3
80/84	.0	.0	.0	.7	1.2	3.8	5.0	3.3	1.7	.2	.2	66	15.8
75/79	.0	.0	.0	.2	1.9	4.5	12.4	11.2	6.5	1.7	.2	154	36.8
70/74	.0	.0	.0	.2	.7	4.5	11.0	11.7	6.7	.2	.2	146	34.9
65/69	.0	.0	.0	.0	.5	1.0	.7	2.6	1.7	.2	.2	27	6.5
TOTAL	.0	.0	.0	.2	2.1	6.3	12.6	12.6	7.0	.2	.2	418	100.0
PCT	.0	.0	.0	2.8	5.0	15.1	30.1	30.1	16.7	.2	.2		

TABLE 14

		PERCENT FREQUENCY OF WIND DIRECTION BY TEMP										TOTAL	
TEMP F		N	NE	E	SE	S	SW	W	NW	VAR	CALM	OBS	PCT FREQ
50/84	.7	.2	.2	.2	.1	.0	.1	.1	.0	.0	.0	7	1.7
83/89	.4	.0	.3	.3	.7	.4	.5	.2	.1	.0	.0	18	4.3
80/84	2.2	.8	3.2	1.9	1.9	.8	.7	.3	.4	.0	.0	66	15.8
75/79	5.9	1.6	4.6	6.6	2.4	1.4	1.4	3.3	8.6	.0	.0	154	36.8
70/74	5.0	1.9	2.9	3.9	1.3	1.4	1.4	2.9	12.0	.0	.0	146	34.9
65/69	1.6	.3	.7	.5	.5	.0	.5	.9	1.7	.0	.0	27	6.5
TOTAL	16.8	4.8	12.3	13.8	4.9	4.9	4.6	8.0	26.4	.0	.0	418	100.0
PCT		4.8	12.3	13.8	4.9	4.9	4.6	8.0	26.4	.0	.0		

TABLE 15

		MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR										TOTAL	
HOUR (GMT)		MAX	99%	95%	50%	5%	1%	MIN	MEAN			OBS	PCT FREQ
00003	87	84	80	72	68	66	65	65	72.8	.2	.2	125	29.8
06009	93	90	86	77	70	68	68	68	77.2	.2	.2	143	34.5
12015	94	93	88	78	71	65	65	65	78.2	.2	.2	138	32.8
18021	94	92	82	74	68	67	67	67	74.3	.2	.2	129	31.0
TOT	94	90	85	75	69	66	65	65	75.7	.2	.2	535	128.1

TABLE 16

		PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR										TOTAL	
HOUR (GMT)		0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN		OBS	PCT FREQ
00003	.0	.0	2.9	7.7	25.0	34.6	29.8	.2	.2	.2	.2	104	24.5
06009	.0	.0	16.3	18.8	29.1	23.9	12.0	.73	.73	.73	.73	117	28.0
12015	.0	.0	9.6	25.4	32.5	23.7	8.8	.74	.74	.74	.74	114	27.5
18021	.0	.0	3.1	6.2	31.6	38.8	18.4	.81	.81	.81	.81	98	23.2
TOT	.0	.0	36	67	128	129	73	.77	.77	.77	.77	433	104.2

PERIOD: (PRIMARY) 1952-1971  
(OVER-ALL) 1910-1971

APRIL

AREA 0024 N. W. PERSIAN GULF  
27.2N 50.2E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)  
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	TOT	W	WD		
17/19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
14/16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
11/13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
9/10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7/8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
-1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
-5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
-7/-8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
-9/-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
-11/-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOTAL	18	94	142	108	142	108	142	108	142	108	142	108	142	108	142	108	142	108	142	108	142	108	142	108	142	108	142	108	142	108	142	108	142	108	142	108	142
PCT	4.2	21.8	32.9	25.1	9.7	4.2	1.4	.7	.7	.7	.7	.7	.7	.7	.7	.7	.7	.7	.7	.7	.7	.7	.7	.7	.7	.7	.7	.7	.7	.7	.7	.7	.7	.7	.7	.7	

PERIOD: (PRIMARY) 1953-1971  
 (OVER-ALL) 1953-1971

APRIL

AREA 0034 N. W. PERSIAN GULF  
 27.2N 50.2E

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N										NE										PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.7	15.4	2.2	.0	.0	.0	18.4	2.4	2.9	.7	.0	.0	.0	6.1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	1.3	.0	.0	.0	1.8	.0	.2	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.2
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.7	.0	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.6	.0	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.7	16.0	4.8	.0	.0	.0	21.5	2.4	3.1	.7	.0	.0	.0	6.3	.0	.0	.0	.0	.0	.0	.0

HGT	E										SE										PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.3	13.6	.0	.0	.0	.0	14.9	.7	10.3	.0	.0	.0	.0	11.0	.0	.0	.0	.0	.0	.0	.0
1-2	.7	.6	.0	.0	.0	.0	1.3	.0	.9	.0	.0	.0	.0	.9	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	2.2	.0	.0	.0	.0	2.2	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.0	14.2	.0	.0	.0	.0	16.2	.7	13.4	.0	.0	.0	.0	14.2	.0	.0	.0	.0	.0	.0	.0

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PERIOD: (PRIMARY)  
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TABLE 18

PCT FREQ OF \* WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	5.5	.0	.0	.0	.0	5.5	.7	5.0	.0	.0	.0	.0	5.7
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	5.5	.0	.0	.0	.0	5.5	.7	5.1	.0	.0	.0	.0	5.9

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	3.3	.0	.0	.0	.0	4.0	.0	13.1	2.2	.0	.0	.0	15.3
1-2	.0	.0	.0	.0	.0	.0	1.3	.0	1.5	.0	.0	.0	.0	1.7
3-4	.0	.0	.0	.0	.0	.0	1.1	.0	1.5	1.1	.0	.0	.0	2.6
5-6	.0	.0	.0	.0	.0	.0	1.7	.0	.0	1.5	.0	.0	.0	2.2
7	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.7	5.0	2.4	.0	.0	.0	3.1	.0	17.1	5.3	.0	.0	.0	22.4

PERIOD: (PRIMARY)  
(OVER-ALL) 1963-1971

APRIL

AREA 0024 N. W. PERSIAN GULF  
27.2N 50.2E

TABLE 18 (CONT)

WIND SPEED (KTS) VS SEA HEIGHT (FT)								TOT OBS
HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	20.6	58.8	4.4	.0	.0	.0	33.8	
1-2	.6	2.5	1.3	.0	.0	.0	4.4	
3-4	.0	4.4	2.5	.0	.0	.0	6.9	
5-6	.0	.6	1.3	.0	.0	.0	1.9	
7	.0	1.3	1.3	.0	.0	.0	2.5	
8-9	.0	.0	.6	.0	.0	.0	.6	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	160
TOT PCT	21.3	67.5	11.3	.0	.0	.0	100.0	

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+ TOTAL	MEAN HGT
<6	34.6	13.3	8.9	2.6	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	209
6-7	.0	.6	2.3	1.4	.9	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	22
8-9	.0	.3	.0	.3	.9	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7
10-11	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1
12-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
INDET	27.1	2.3	1.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	108
TOTAL	21.4	58	45	15	9	4	1	1	1	0	0	0	0	0	0	0	0	0	0	347
PCT	61.7	16.7	13.0	4.3	2.6	1.2	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0

PERIOD: (PRIMARY) 1949-1971  
(OVER-ALL) 1914-1971

MAY

APEA 0024 N. W. PERSIAN GULF  
27.3N 50.1E

TABLE 1

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	RAIN SHR	RAIN SHR	ORZL	PRECIPITATION TYPE			HAIL	PCT FREQ PCPN AT 08 TIME	TOTAL PCPN OBS	THOR LTNG	OTHER WEATHER PHENOMENA					TOTAL OBS
				PCPN	FRZG	SNOW	OTHER FRZN PCPN				PCPN	FOG	SMOKE	DUST	NO	
N	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	1.1	.5	.7	13.3	.7	73
NE	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.1	.7	.1	7.7	.1	21
E	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.8	.0	5.0	.0	28
SE	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.7	1.2	.2	4.1	.2	30
S	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.6	.2	.0	2.4	.0	15
SW	.1	.0	.0	.0	.0	.0	.0	.1	0	.0	.4	.4	.2	3.3	.2	21
W	.1	.0	.0	.0	.0	.0	.0	.1	0	.0	1.3	1.3	1.0	7.5	1.0	54
NW	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	6.2	2.9	1.5	25.8	1.5	176
VAR	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.4	.6	7.4	.6	41
TOT OBS	1	0	0	0	0	0	0	.2	1	.0	50	41	21	371	41	484
TOT PCT	.2	.0	.0	.0	.0	.0	.0	.2	1	.0	10.3	8.5	4.3	75.7	4.3	100.0

TABLE 2

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	RAIN	RAIN SHR	ORZL	PRECIPITATION TYPE			HAIL	PCT FREQ PCPN AT 08 TIME	TOTAL PCPN OBS	THOR LTNG	OTHER WEATHER PHENOMENA					TOTAL OBS
				PCPN	FRZG	SNOW	OTHER FRZN PCPN				PCPN	FOG	SMOKE	DUST	NO	
0003	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	2.8	1.8	.6	90.8	.6	109
0609	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	28.8	6.7	3.7	60.7	3.7	163
1215	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.8	14.7	.0	79.1	.0	129
1821	1.0	.0	.0	.0	.0	.0	.0	1.0	1	.0	1.0	9.0	5.0	34.0	5.0	100
TOT	1	0	0	0	0	0	0	.2	1	.0	52	41	23	384	23	501
PCT	.2	.0	.0	.0	.0	.0	.0	.2	1	.0	10.4	8.2	4.6	76.6	4.6	100.0



PERIOD: (PRIMARY) 1949-1971  
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MAY

ARE: 0024 N. M. PERSIAN GULF  
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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALC	WIND SPEED (KNOTS)					PCT FREQ	TOTAL OBS
		1-3	4-10	11-21	22-33	34-47		
00003	10.5	7.0	48.2	28.9	5.3	.0	9.4	114
04009	8.9	8.9	47.6	30.6	6.1	.0	9.5	180
12015	6.1	5.9	42.0	35.9	9.2	.0	11.1	131
18021	8.1	13.3	43.2	32.4	2.7	.0	8.5	111
TOT	45	48	240	171	32	0	9.7	536
PCT	8.4	9.0	44.8	31.9	6.0	.0	100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)  
BY WIND DIRECTION

WIND DIR	PCT FREQ					TOTAL OBS	MEAN CLOUD COVER
	0-2	3-4	5-7	8-6	08500		
N	13.1	.6	2.1	.4	67	67	1.5
NE	6.7	.9	1.1	.9	39	39	1.9
E	5.4	.2	1.0	.6	27	27	1.1
SE	4.0	.5	.7	.2	23	23	2.2
S	2.6	.4	.2	.1	13	13	1.2
SW	3.5	.1	.3	.1	19	19	2.2
W	7.5	.9	1.0	.4	40	40	1.3
NW	30.3	1.2	2.2	.7	141	141	.7
VAR	.0	.0	.0	.0	0	0	.0
CALM	8.1	.2	1.0	.2	39	39	1.0
TOT OBS	332	21	39	17	409	409	1.2
TOT PCT	81.2	5.1	9.5	4.2	100.0		

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH > 4/8)  
AND OCCURRENCE OF NH < 5/8 BY WIND DIRECTION

WIND DIR	PERCENTAGE FREQUENCY					NH < 5/8					TOTAL OBS
	000	150	300	600	1000	2000	3000	5000	6500	8000+	
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	67
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	39
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	27
SE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	23
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	13
SW	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	19
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	40
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	141
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	39
TOT OBS	2	0	0	0	0	0	0	0	0	0	409
TOT PCT	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0



PERIOD: (PRIMARY) 1949-1971  
(OVER-ALL) 1916-1971

MAY

AREA 0024 N. W. PERSIAN GULF  
27.3N 50.1E

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE  
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	OR >10	OR >5	OR >2	OR >1	OR >1/2	OR >1/4	OR >500	OR >0
OR >6500	.2	.9	.9	.9	.9	.9	.9	.9
OR >5000	.5	1.4	1.4	1.4	1.4	1.4	1.4	1.4
OR >3500	1.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1
OR >2000	1.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
OR >1000	3.7	6.6	7.3	7.3	7.3	7.3	7.3	7.3
OR >600	3.7	6.6	7.3	7.3	7.3	7.3	7.3	7.3
OR >300	3.7	6.6	7.3	7.3	7.3	7.3	7.3	7.3
OR >150	3.7	6.6	7.3	7.3	7.3	7.3	7.3	7.3
OR >0	3.7	6.6	7.3	7.3	7.3	7.3	7.3	7.3
TOTAL	16	28	31	31	31	31	31	31

TOTAL NUMBER OF OBS: 427

PCT FREQ NH <5/8: 92.3

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	9	TOTAL
	73.4	11.4	3.2	3.0	1.5	1.9	1.7	1.3	1.7	.6	463

PERIOD: (PRIMARY) 1949-1971  
(OVER-ALL) 1914-1971

MAY

AREA 0024 N. W. PERSIAN GULF  
27.3N 50.1E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF  
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
NO PCP	.2	.1	.0	.2	.0	.0	.2	.2	.0	.0	.8	
TOT %	.2	.1	.0	.2	.0	.0	.2	.2	.0	.0	.8	
PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
NO PCP	.3	.0	.0	.0	.0	.4	1.0	3.8	.0	.0	5.6	
TOT %	.3	.0	.0	.0	.0	.4	1.0	3.8	.0	.0	5.6	
PCP	.0	.0	.0	.0	.0	.1	.1	.0	.0	.0	.2	
NO PCP	.1	.4	.2	.0	.2	.3	.2	.9	.0	.6	2.9	
TOT %	.1	.4	.2	.0	.2	.3	.3	.9	.0	.6	3.1	
PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
NO PCP	4.4	3.1	2.0	2.6	.7	1.0	3.6	9.9	.0	3.7	31.0	
TOT %	4.4	3.1	2.0	2.6	.7	1.0	3.6	9.9	.0	3.7	31.0	
PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
NO PCP	10.6	5.0	3.6	3.4	2.3	2.5	6.1	21.4	.0	4.1	59.1	
TOT %	10.6	5.0	3.6	3.4	2.3	2.5	6.1	21.4	.0	4.1	59.1	
TOT OBS	15.6	8.6	5.8	6.3	3.2	4.4	11.2	36.5	.0	8.5	100.0	484

PERIOD: (PRIMARY) 1549-1971  
(OVER-ALL) 1514-1971

MAY

AREA 0024 N. W. PERSIAN GULF  
27.3N 50.1E

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED  
WITH VARYING VALUES OF VISIBILITY

VSRY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT TOTAL DBS
<1/2	0-3	.0	.0	.0	.0	.0	.2	.0	.2	.0	.0	.4
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT X	.0	.0	.0	.0	.0	.2	.0	.2	.0	.0	.4
1/2<1	0-3	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.2
	4-10	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT X	.1	.0	.0	.2	.0	.0	.0	.0	.0	.0	.6
1<2	0-3	.1	.0	.0	.0	.0	.0	.2	.1	.0	.0	.4
	4-10	.2	.0	.0	.0	.0	.4	.4	.3	.0	.0	3.2
	11-21	.0	.0	.0	.0	.0	.0	.4	1.3	.0	.0	1.9
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT X	.3	.0	.0	.0	.0	.4	.9	3.8	.0	.0	5.4
2<5	0-3	.0	.0	.2	.0	.0	.0	.0	.0	.0	.6	.8
	4-10	.2	.2	.0	.0	.2	.3	.5	.6	.0	.0	1.9
	11-21	.0	.2	.0	.0	.0	.0	.1	.5	.0	.0	.8
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT X	.2	.4	.2	.0	.2	.3	.6	1.0	.0	.6	3.4
5<10	0-3	.0	.5	.5	.5	.1	.2	.4	.6	.0	3.4	5.6
	4-10	1.9	1.6	1.2	1.3	.5	.7	2.0	2.9	.0	.0	12.2
	11-21	1.7	.8	.4	.6	.0	.1	.9	5.4	.0	.0	9.8
	22+	.6	.4	.0	.0	.0	.0	.0	.5	.0	.0	1.5
	TOT X	4.2	2.8	2.1	2.5	.7	.9	3.2	9.3	.0	3.4	29.1
10+	0-3	.5	.5	.6	.8	.2	.5	1.3	1.1	.0	4.3	9.9
	4-10	4.5	2.0	2.1	1.5	2.1	1.7	3.5	9.8	.0	.0	27.2
	11-21	4.4	1.8	.9	.8	.0	.1	2.1	9.3	.0	.0	19.3
	22+	1.5	.7	.0	.0	.0	.0	.0	2.4	.0	.0	4.5
	TOT X	10.9	4.9	3.6	3.1	2.3	2.3	6.8	22.6	.0	4.5	61.0
	TOT DBS											533
	TOT PCT	15.7	8.2	5.8	5.8	3.1	4.1	11.8	37.1	.0	8.4	100.0

## MAY

AREA 0024 N. W. PERSIAN GULF  
27.3N 50.1EPERIOD: (PRIMARY) 1969-1971  
(OVER-ALL) 1914-1971

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET) NH > 4/8) AND  
OCCURRENCE OF NH < 5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 399	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL NH < 5/8 ANY HGT	TOTAL NH < 5/8 TOTAL OBS
00003	1.0	.0	.0	.0	4.8	1.0	1.0	.0	1.0	.0	8.7	91.3 104
06009	.0	.0	.0	.0	3.5	.7	.7	1.4	.0	.0	6.3	93.7 142
12015	.8	.0	.0	.0	5.7	.0	.8	.0	1.6	.8	9.8	90.2 123
18021	.0	.0	.0	.0	2.2	1.1	.0	.0	.0	.0	3.2	96.8 93
TOT PCT	2 .4	0 .0	0 .0	0 .0	19 4.1	3 .6	3 .6	2 .4	3 .6	1 .2	33 7.1	429 92.9 105.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	< 1/2 1.0	1/2-1 1.0	1-2 1.0	2-5 1.9	5-10 34.6	10+ 60.6	TOTAL OBS
00003	1.0	1.0	1.0	1.9	34.6	60.6	104
06009	.9	.0	.0	5.4	27.7	66.1	112
12015	.8	.0	.0	3.3	29.2	66.7	120
18021	.0	1.1	.0	2.2	33.7	63.0	92
TOT PCT	3 .7	2 .5	1 .7	14 3.3	133 31.1	275 64.3	428 100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR  
CEILING HGT (FEET) NH > 4/8) BY HOUR

HOUR (GMT)	< 150 < 500	< 600 < 1	< 1000 < 5	1000+ AND 5+	NH < 5/8 AND 5+	TOTAL OBS
00003	1.9	1.9	4.8	6.7	88.5	104
06009	.0	.9	6.3	8.0	85.7	112
12015	.8	.8	4.2	8.3	87.5	120
18021	.0	1.1	3.3	2.2	94.6	92
TOT PCT	3 .7	5 1.2	20 4.7	28 6.5	380 88.8	428 100.0

MAY

 PERIOD: (PRIMA) 1949-1971  
 (OVER-ALL) 1914-1971

 AREA 0024 N. W. PERSIAN GULF  
 27.3N 50.1E

TABLE 13

		PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP										PCT	
TEMP F		0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL	DBS	FREQ	DBS
100/104	.0	.0	1.0	1.0	.0	.2	.0	.0	.0	5	5	1.2	
95/99	.0	.5	1.5	2.2	1.0	1.0	.2	.0	.0	22	22	5.3	
90/94	.0	.0	.5	1.0	3.2	1.7	1.7	.0	.0	27	27	6.6	
85/89	.0	.0	.0	1.0	4.1	7.0	5.6	3.2	.7	89	89	21.6	
80/84	.0	.0	.7	3.4	11.4	12.4	12.1	5.8	5.8	189	189	45.9	
75/79	.0	.0	.0	.2	4.6	4.6	4.6	4.4	4.4	76	76	18.4	
70/74	.0	.0	.0	.0	.5	.2	.2	.2	.2	4	4	1.0	
TOTAL	.0	.3	19	45	115	112	83	45	45	412	412	100.0	
PCT	.0	.7	4.6	10.9	27.9	24.8	20.1	10.9					

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP												
N	NE	E	SE	S	SW	W	NW	VAR	CALM			
.2	.0	.0	.2	.0	.2	.0	.1	.0	.5			
1.4	.5	.2	.3	.0	.0	.0	2.5	.0	.5			
1.7	.2	.0	.7	.0	.6	1.0	2.2	.0	1.0			
3.2	3.0	1.3	2.0	.7	.7	2.0	6.6	.0	2.2			
7.6	3.7	3.6	2.4	1.3	1.3	5.2	17.2	.0	3.2			
2.7	1.6	1.2	1.4	1.1	1.3	2.7	5.2	.0	1.2			
.0	.0	.0	.0	.0	.0	.5	.7	.0	.0			
65	37	26	29	14	17	45	142	.0	35			
15.8	9.0	6.3	7.0	3.6	4.1	11.1	34.5	.0	8.5			

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR												
HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL DBS			
00003	91	90	85	80	75	73	72	80.4	120			
06009	100	97	93	84	78	73	73	84.1	183			
12015	101	100	98	85	77	74	73	86.2	128			
18021	95	91	89	82	76	73	73	82.1	115			
TOT	101	99	94	83	76	73	72	83.4	546			

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR												
HOUR (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL DBS				
00003	.0	5.1	23.5	22.4	31.6	17.3	78	98				
06009	.0	20.2	24.0	27.1	18.6	10.1	72	129				
12015	.0	29.2	34.9	17.9	11.3	6.6	66	106				
18021	.0	6.7	26.7	34.4	23.3	8.9	75	90				
TOT	0	68	115	107	88	45	73	423				

PERIOD (PRIMARY) 1969-1971  
(JVES-ALI) 1914-1971

MAY

AREA 0024 N. W. PERSIAN GULF  
27.3N 50.1E

TABLE 17

P.T. FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)  
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	69		73		77		81		85		89		93		TOT		W		WD	
	72	75	76	78	79	80	82	84	86	88	90	92	94	96			FOG		FOG	
17/19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.3	.3	.3	16	.0	.0	.0	2.3	
14/16	.0	.0	.0	.0	.0	.0	.0	.0	1.0	1.0	.8	2.0	1.0	1.0	12	.0	.0	.0	3.0	
11/13	.0	.0	.0	.0	.0	.0	.0	.0	1.0	1.5	1.5	1.5	.3	.3	16	.0	.0	.0	4.0	
9/10	.0	.0	.0	.0	.0	.0	.0	.0	2.5	2.3	1.5	.0	.0	.0	17	.3	.3	.3	4.0	
7/8	.0	.0	.0	.0	.0	.0	.0	.0	1.5	3.0	.3	.0	.0	.0	26	.5	.5	.5	6.1	
6	.0	.0	.0	.0	.0	.0	.0	.0	1.5	5.8	.5	.0	.0	.0	21	.8	.8	.8	4.5	
5	.0	.0	.0	.0	.0	.0	.0	.0	2.3	5.8	.5	.0	.0	.0	46	2.5	2.5	2.5	9.1	
4	.0	.0	.0	.0	.0	.0	.0	.0	2.3	7.8	1.8	.0	.0	.0	41	2.0	2.0	2.0	8.3	
3	.0	.0	.0	.0	.0	.0	.0	.0	1.8	5.3	.8	.3	.0	.0	45	2.5	2.5	2.5	8.8	
2	.0	.0	.0	.0	.0	.0	.0	.0	1.8	5.3	.8	.3	.0	.0	36	2.5	2.5	2.5	6.6	
1	.0	.0	.0	.0	.0	.0	.0	.0	2.3	5.1	1.5	.0	.0	.0	39	1.0	1.0	1.0	8.8	
0	.0	.0	.0	.0	.0	.0	.0	.0	1.5	3.0	4.8	.5	.0	.0	39	.0	.0	.0	9.8	
-1	.0	.0	.0	.0	.0	.0	.0	.0	1.3	1.3	1.8	.0	.0	.0	13	.0	.0	.0	2.3	
-2	.0	.0	.0	.0	.0	.0	.0	.0	1.0	.5	.0	.0	.0	.0	8	.3	.3	.3	1.8	
-3	.3	.3	.3	.3	.3	.3	.3	.3	.3	.3	.0	.0	.0	.0	5	.0	.0	.0	1.3	
-4	.0	.0	.0	.0	.0	.0	.0	.0	1.3	.0	.0	.0	.0	.0	8	.3	.3	.3	1.8	
-5	.0	.0	.0	.0	.0	.0	.0	.0	.5	.3	.0	.0	.0	.0	3	.0	.0	.0	.8	
-6	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0	1	.3	.3	.3	.0	
-7/-8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	.3	.3	.3	.3	
-9/-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	.0	.0	.3	
TOTAL	1	23	76	190	77	29	14	396	52	336	54.8				100.0	13.1				
PCT	.3	5.8	19.2	40.4	19.4	7.3	3.5													

PERICOI (PRIMARY)  
(OVER-ALL: 1963-1971)

MAY

TABLE 18

AREA 0024 N. W. PERSIAN GULF  
27.3N 50.1E

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	10.0	.0	.0	.0	.0	10.0	.0	7.1	.0	.0	.0	.0	7.1
1-2	.0	2.9	.0	.0	.0	.0	2.9	.0	.4	.0	.0	.0	.0	.4
3-4	.0	.0	.0	1.3	.0	.0	1.3	.0	.0	.0	.4	.0	.0	.4
5-6	.0	.0	1.3	.0	.0	.0	1.3	.0	.0	1.7	1.7	.0	.0	3.3
7	.0	.0	1.3	.0	.0	.0	1.3	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-50	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	12.9	2.5	1.3	.0	.0	16.7	.0	7.5	1.7	2.1	.0	.0	11.3

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.3	1.7	.0	.0	.0	.0	2.9	2.5	4.2	.0	.0	.0	.0	6.7
1-2	.0	1.3	.0	.0	.0	.0	1.3	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	1.7	.0	.0	.0	1.7	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.3	2.9	1.7	.0	.0	.0	5.8	2.5	4.2	.0	.0	.0	.0	6.7

MAY  
AREA 0024 N. W. PERSIAN GULF  
27.3N 50.1E

TABLE 10

PERIOD: (PRIMARY)  
(OVER-ALL) 1903-1971

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S										SW				PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	1.3	5.4	.0	.0	.0	.0	6.7	1.7	3.8	.0	.0	.0	.0	5.4	
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	1.3	5.4	.0	.0	.0	.0	6.7	1.7	3.8	.0	.0	.0	.0	5.4	

HGT	W										NW				PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	.0	5.4	.0	.0	.0	.0	5.8	1.7	10.4	.0	.0	.0	.0	12.1	
1-2	.0	.0	.0	.0	.0	.0	4.2	.0	4.6	6.7	.0	.0	.0	12.9	
3-4	.0	.0	.0	.0	.0	.0	.0	.0	1.7	1.7	.0	.0	.0	3.3	
5-6	.0	.0	.0	.0	.0	.0	.0	.0	1.7	2.1	1.7	.0	.0	5.4	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.0	.4	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.3	.0	.0	.0	3.3	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	10.0	.0	.0	.0	.0	10.0	3.3	18.3	14.2	1.7	.0	.0	37.5	



PERIOD: (PRIMARY)  
(OVER-ALL) 1963-1971

MAY

AREA 0024 N. W. PERSIAN GULF  
27.2N 50.1E

TABLE 18 (CONT)

HGT	WIND SPEED (KTS) VS SEA HEIGHT (FT)						TOT DBS
	0-3	4-10	11-21	22-33	34-47	48+	
<1	35.3	34.1	.0	.0	.0	.0	69.4
1-2	1.2	9.4	4.7	.0	.0	.0	15.3
3-4	.0	1.2	3.5	1.2	.0	.0	4.7
5-6	.0	1.2	3.5	2.4	.0	.0	7.1
7	.0	.0	1.2	.0	.0	.0	1.2
8-9	.0	.0	2.4	.0	.0	.0	2.4
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	35.3	45.9	14.1	3.5	.0	.0	100.0

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-80	87+ TOTAL	MEAN HGT
<6	15.0	23.1	11.6	3.0	.7	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.46
6-7	.0	1.1	4.1	3.0	.7	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.26
8-9	.0	.0	.4	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2
10-11	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6
12-13	.0	.0	.4	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5
>13	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4
INDET	28.4	3.4	1.5	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	90
TOTAL	119	74	48	19	5	3	0	0	0	0	0	0	0	0	0	0	0	0	0	258
PCT	44.4	27.6	17.9	7.1	1.9	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0

PERIOD: (PRIMARY) 1953-1970  
(OVER-ALL) 1910-1970

JUNE

AREA 0024 N.W. PERSIAN GULF  
27.1N 50.3E

TABLE 1

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	RAIN SHR	RAIN SHR	DRZ.	PRECIPITATION TYPE				HAIL	PCT FREQ PCPN AT DB TIME	TOTAL PCPN OBS	THDR LTNG	OTHER WEATHER PHENOMENA				TOTAL OBS
				FRZG PCPN	SNOW PCPN	OTHER PCPN	FRZN					FOG PCPN	SMOKE NO	DUST BLWG	NO DUST SNOW	
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.3	.3	1.5	8.9	55
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.2	3.1	16
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.4	.0	3.1	17
SE	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.2	.0	1.3	8
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.3	.0	1.2	8
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.6	.0	2.9	18
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.2	1.3	1.3	10.3	66
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	1.1	4.0	5.0	47.6	289
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.2	.2	.0	4.0	22
TOT OBS	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	9	38	40	414	501
TOT PCT	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	1.8	7.6	8.0	82.6	100.0

TABLE 2

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	RAIN SHR	RAIN SHR	DRZ.	PRECIPITATION TYPE				HAIL	PCT FREQ PCPN AT DB TIME	TOTAL PCPN OBS	THDR LTNG	OTHER WEATHER PHENOMENA				TOTAL OBS
				FRZG PCPN	SNOW PCPN	OTHER PCPN	FRZN					FOG PCPN	SMOKE NO	DUST BLWG	NO DUST SNOW	
0003	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.5	7.5	7.5	84.2	120
0609	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	4.4	9.6	9.6	76.5	136
12015	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.7	7.0	6.3	85.9	142
18021	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.9	5.2	8.6	85.3	146
TOT	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	9	38	41	426	514
PCT	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	1.3	7.4	8.0	82.9	100.0

JUNE

PERIOD: (PRIMARY) 1953-1970  
(OVER-ALL) 1910-1970

AREA 0004 N.W. PERSIAN GULF  
27.0N 50.3E

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)										HOUR (GMT)											
	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPO	00	03	06	09	12	15	18	21					
N	.8	4.8	4.5	1.0	.0	.0	59	11.1	11.7	9.4	.0	9.4	7.7	16.1	16.7	8.2	21.9					
NE	.4	1.4	1.2	.1	.0	.0	16	3.1	10.0	2.3	.0	.2	.0	5.0	.0	5.9	.0					
E	.7	2.5	.0	.0	.0	.0	17	3.3	4.8	3.3	.0	.7	7.7	3.5	33.3	5.2	.0					
SE	1.0	.5	.2	.0	.0	.0	19	1.7	4.3	.8	.0	1.9	.0	2.3	.0	2.0	.0					
S	.6	.8	.1	.0	.0	.0	8	1.5	5.0	.0	.0	.9	.0	2.7	.0	1.8	12.5					
SW	.2	2.7	.6	.0	.0	.0	18	3.5	6.5	8.1	.0	3.0	.0	.9	.0	3.2	.0					
W	1.6	5.7	5.1	.0	.0	.0	71	13.4	8.8	12.5	.0	14.4	19.2	13.1	.0	14.1	.0					
NA	2.5	23.6	23.4	7.3	.0	.0	301	56.7	10.7	58.5	100.0	67.2	42.3	52.1	16.7	52.3	26.1					
VAR	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0					
CALM	5.0	18.6	18.6	18	.0	.0	30	5.6	.0	.0	.0	2.2	23.1	4.3	33.3	7.3	37.5					
TOT OBS	71	256	186	18	0	0	531	100.0	9.4	120	1	135	13	141	3	110	8					
TOT PCT	13.4	48.2	34.4	3.4	.0	.0	100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0					

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPO	HOUR (GMT)												
	0-6	7-16	17-27	28-40	41+				00	03	06	09	12	15	18	21					
N	3.0	5.6	2.4	.1	.0	59	11.1	11.7	9.3	9.3	9.3	16.1	16.1	9.1	9.1						
NE	.7	2.1	.3	.0	.0	16	3.1	10.0	2.3	2.3	.2	4.9	5.2	5.2							
E	5.0	.4	.0	.0	.0	17	3.3	4.8	3.3	3.3	1.4	4.2	4.9	4.9							
SE	1.3	.4	.0	.0	.0	9	1.7	4.3	.8	.8	1.7	2.3	1.9	1.9							
S	1.2	.3	.0	.0	.0	8	1.5	5.0	.0	.0	.8	2.6	2.5	2.5							
SW	2.4	1.0	.0	.0	.0	18	3.5	6.5	8.1	8.1	2.7	.9	3.0	3.0							
W	4.9	8.0	.3	.0	.0	71	13.4	8.8	12.4	12.4	14.9	12.8	13.1	13.1							
NW	15.3	33.9	8.9	.1	.0	301	56.7	10.7	58.9	58.9	65.0	51.4	50.6	50.6							
VAR	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0							
CALM	5.6	275	64	1	0	30	5.6	9.4	5.0	5.0	4.1	4.9	9.3	9.3							
TOT OBS	191	51.8	12.1	.2	.0	531	100.0		121	121	148	144	118	118							
TOT PCT	36.0	9.8	2.3	.0	.0	100.0			100.0	100.0	100.0	100.0	100.0	100.0							

JUNE

AREA 0024 N. W. PERSIAN GULF  
27.1N 50.3EPERIOD: (PRIMARY) 1953-1970  
(OVER-ALL) 1910-1970

TABLE 4

## PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS)					PCT FREQ	TOTAL OBS
		1-3	4-10	11-21	22-33	34-47		
00003	5.0	4.1	54.5	33.1	3.3	.0	9.2	121
06009	4.1	8.8	45.9	35.1	6.1	.0	10.2	148
12015	4.5	8.3	47.2	36.8	2.8	.0	9.6	144
18021	9.3	9.3	45.8	34.7	.8	.0	8.4	118
TOT	30	41	256	186	18	0	9.4	531
PCT	5.0	7.7	48.2	35.0	3.4	.0	100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (HEIGHTS)  
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8-10	11-21	22-33	34-47	48+	600	999	1000	2000	3500	5000	6500	8000+	NN <5/8	NN >4/8	TOTAL
N	10.1	.5	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	52
NE	3.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	16
E	3.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	17
SE	1.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7
S	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8
SW	3.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	18
W	12.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	63
NW	54.9	.9	1.1	.6	.4	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	273
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
CALM	3.8	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	19
TOT OBS	455	7	8	6	476	.2	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	476
TOT PCT	95.6	1.5	1.7	1.3	100.0	.2	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT) NN >4/8  
AND OCCURRENCE OF NN <5/8 BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8-10	11-21	22-33	34-47	48+	600	999	1000	2000	3500	5000	6500	8000+	NN <5/8	NN >4/8	TOTAL
N	10.1	.5	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	52
NE	3.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	16
E	3.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	17
SE	1.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7
S	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8
SW	3.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	18
W	12.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	63
NW	54.9	.9	1.1	.6	.4	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	273
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
CALM	3.8	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	19
TOT OBS	455	7	8	6	476	.2	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	476
TOT PCT	95.6	1.5	1.7	1.3	100.0	.2	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0

PERIOD: (PRIMARY) 1953-1970  
(OVER-ALL) 1910-1970

JUNE

AREA 0024 N. W. PERSIAN GULF  
27.1N 50.3E

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE  
OF CEILING HEIGHT (NH > 4/8) AND VSBY (NM)

CEILING (FEET)	OR >10	OR >5	OR >2	VSBY (NM) >1	OR >1/2	OR >1/4	OR >50YD	OR >0
OR >6500	.0	.0	.0	.0	.0	.0	.0	.0
OR >5000	.0	.2	.2	.2	.2	.2	.2	.2
OR >3500	.0	.2	.2	.2	.2	.2	.2	.2
OR >2000	.0	.2	.2	.2	.2	.2	.2	.2
OR >1000	.0	.2	.4	.4	.4	.4	.4	.4
OR >600	.0	.2	.4	.4	.4	.4	.4	.4
OR >300	.0	.2	.4	.4	.4	.4	.4	.4
OR >150	.0	.2	.6	.6	.6	.6	.6	.6
OR >0	.0	.4	.6	.8	.8	1.0	1.0	1.0
TOTAL	0	2	3	4	4	5	5	5

TOTAL NUMBER OF OBS: 488

PCT FREQ NH <5/8: 99.0

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
95.7	2.6	.2	.0	.0	.0	.0	.2	.4	.2	.6	493

PERIOD: (PRIMARY) 1953-1970  
(OVER-ALL) 1910-1970

JUNE

AREA 0024 N. W. PERSIAN GULF  
27.3N 50.3E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF  
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

WSBY (IN)	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NO PCP	.3	.0	.0	.0	.0	.0	.2	1.0	.0	.0	1.6	
TOT %	.3	.0	.0	.0	.0	.0	.2	1.0	.0	.0	1.6	
PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1/2<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NO PCP	.1	.0	.0	.0	.0	.0	.4	1.3	.0	.2	2.0	
TOT %	.1	.0	.0	.0	.0	.0	.4	1.3	.0	.2	2.0	
PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NO PCP	.3	.0	.2	.4	.3	.0	.4	1.6	.0	.0	3.2	
TOT %	.3	.0	.2	.4	.3	.0	.4	1.6	.0	.0	3.2	
PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NO PCP	.9	1.6	.4	.8	.6	1.3	5.1	29.2	.0	.4	44.3	
TOT %	.9	1.6	.4	.8	.6	1.3	5.1	29.2	.0	.4	44.3	
PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NO PCP	.1	.7	2.9	.7	.6	2.3	7.0	24.6	.0	.0	48.9	
TOT %	.1	1.7	2.9	.7	.6	2.3	7.0	24.6	.0	.0	48.9	
TOT OBS	11.1	3.3	3.5	1.6	1.6	3.6	13.2	57.7	.0	4.4	100.0	501
TOT PCT												

PERIOD: (PRIMARY) 1953-1970  
(OVER-ALL) 1910-1970

JUNE

AREA 0034 N. W. PERSIAN GULF  
27.1N 50.3E

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED  
WITH VARYING VALUES OF VISIBILITY

VSRY (N)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.2	.2	.0	.0	.4	.4
	11-21	.1	.0	.0	.0	.0	.0	.0	.6	.0	.0	.8	.8
	22+	.2	.0	.0	.0	.0	.0	.2	.2	.0	.0	.4	.4
	TOT *	.3	.0	.0	.0	.0	.0	.2	1.0	.0	.0	1.5	1.5
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1<2	0-3	.0	.0	.0	.0	.0	.0	.4	.0	.0	.2	.6	.6
	4-10	.1	.0	.0	.0	.0	.0	.0	.7	.0	.0	.8	.8
	11-21	.0	.0	.0	.0	.0	.0	.0	.6	.0	.0	.6	.6
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	1.9	.0
	TOT *	.1	.0	.0	.0	.0	.0	.4	1.2	.0	.2	1.9	1.9
2<5	0-3	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.2	.2
	4-10	.4	.0	.2	.1	.0	.0	.2	.8	.0	.0	1.7	1.7
	11-21	.4	.0	.0	.0	.0	.0	.2	.8	.0	.0	1.3	1.3
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT *	.8	.0	.2	.1	.0	.0	.4	1.5	.0	.0	3.2	3.2
5<10	0-3	.6	.2	.2	.6	.2	.2	.8	1.7	.0	.8	5.1	5.1
	4-10	1.9	.8	.2	.2	.4	.9	2.3	15.9	.0	.0	22.4	22.4
	11-21	2.0	.6	.0	.2	.0	.2	1.9	10.0	.0	.0	14.8	14.8
	22+	.4	.0	.0	.0	.0	.0	.0	.6	.0	.0	1.0	1.0
	TOT *	4.8	1.5	.4	1.0	.6	1.2	4.9	26.2	.0	.8	43.3	43.3
10+	0-3	.1	.2	.3	.4	.2	.0	.3	.9	.0	4.8	7.0	7.0
	4-10	2.6	.7	2.3	.3	.3	1.9	3.9	11.1	.0	.0	23.0	23.0
	11-21	2.0	.6	.0	.0	.1	.4	3.1	11.3	.0	.0	17.5	17.5
	22+	.3	.1	.0	.0	.0	.0	.0	1.3	.0	.0	1.9	1.9
	TOT *	5.2	1.6	2.8	.7	.6	2.3	7.3	24.6	.0	4.8	50.0	50.0
TOT OBS		11.2	3.1	3.4	1.7	1.5	3.5	13.3	56.5	.0	5.7	100.0	526

PERIOD: (PRIMARY) 1953-1970  
(OVER-ALL) 1910-1970

JUNE

AREA 0024, N. W. PERSIAN GULF  
27.1N 50.3E

TABLE 10  
PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH > 4/8) AND  
OCCURRENCE OF NH < 5/8 BY HOUR

HOUR (GMT)	0500	1500	2000	2500	3000	3500	4000	4500	5000	5500	6000+	TOTAL	NH < 5/8 ANY HGT	TOTAL	NH < 5/8 OBS
00003	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	117	
06009	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	99.2	123	
12015	1.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.1	97.9	141	
18021	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.9	99.1	108	
TOT	3	0	0	0	1	0	0	1	0	0	0	5	486	591	
PCT	.6	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	1.0	99.0	100.0	

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	< 1/2	1/2-1	1-2	2-5	5-10	10+	TOTAL OBS
00003	.0	.0	.0	3.5	43.5	53.0	115
06009	1.6	.0	1.6	4.0	42.4	50.4	123
12015	2.1	.0	2.1	1.4	41.4	52.9	140
18021	.0	.0	1.9	4.6	47.2	46.3	108
TOT	5	0	7	16	212	248	488
PCT	1.0	.0	1.4	3.3	43.4	50.8	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR  
CEILING, HGT (FEET, NH > 4/8) BY HOUR

HOUR (GMT)	< 150 CEILING	< 600 HGT	< 1000 1000+	NH < 5/8 AND 5+	TOTAL OBS
00003	.0	.0	3.5	.0	96.5
06009	.0	1.6	7.2	.8	92.0
12015	1.4	2.9	6.4	.0	93.6
18021	.9	.9	6.5	.0	93.5
TOT	3	7	29	1	458
PCT	.6	1.4	5.9	.2	93.9



JUNE

 PERIOD: (PRIMARY) 1955-1970  
 (OVER-ALL) 1910-1970

 AREA 0024 N. W. PERSIAN GULF  
 27.1N 50.3E

TABLE 13

		PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP								PCT FREQ	TOTAL OBS
TEMP F		0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100		
100/104	.0	.0	.0	.7	.0	.0	.0	.0	.0	.7	3
95/99	.5	.5	.9	2.6	1.2	.5	.7	.0	.0	6.8	29
90/94	.0	.5	2.4	5.4	9.4	7.8	4.9	.7	.0	31.1	132
85/89	.0	.0	.7	2.1	9.6	15.1	14.1	5.2	.0	47.1	200
80/84	.0	.0	.0	.0	1.6	6.8	5.5	.0	.0	13.6	58
75/79	.0	.0	.0	.0	.0	.0	.0	.7	.0	.7	3
TOTAL	2	5	20	43	93	106	113	43	.0	100.0	423
PCT	.5	1.2	4.7	10.1	21.9	24.9	26.6	10.1			

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP											
	NE	E	SE	S	SW	W	NW	VAR	CALM		
100/104	.2	.0	.0	.0	.0	.0	.3	.0	.0		
95/99	.0	1.6	.0	.2	.3	1.0	2.2	.0	.5		
90/94	1.0	.7	.3	.2	.5	4.6	18.7	.0	.9		
85/89	4.1	1.1	.9	1.3	2.2	6.3	28.2	.0	1.2		
80/84	4.4	.6	.2	.0	1.0	1.4	7.9	.0	.5		
75/79	.0	.0	.0	.0	.0	.3	.0	.0	.0		
TOTAL	48	15	6	7	16	58	245	0	13		
PCT	11.5	3.7	1.4	1.6	3.9	13.7	57.6	.0	3.1		

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR										
HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS	
00003	96	95	91	85	81	79	79	85.5	122	
06009	101	97	95	89	85	82	82	89.3	150	
12015	103	102	97	91	87	85	84	91.5	145	
18021	98	95	93	88	83	80	80	87.6	124	
TOT	103	98	95	88	82	80	79	88.6	541	

TABLE 16

		PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR								TOTAL OBS
MEAN	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS	
00203	96	75	91	85	81	79	79	85.5	122	
06009	101	97	95	89	85	82	82	89.5	150	
12015	103	102	97	91	87	85	84	91.5	145	
18021	98	95	93	88	83	80	80	87.6	124	
TOT	103	98	95	88	82	80	79	88.6	541	

PERIOD: (PRIMARY) 1953-1970  
(OVER-ALL) 1910-1970

JUNE

AREA 0024 N. W. PERSIAN GULF  
27.1N 50.3E

TABLE 17  
PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)  
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TEMP OIF	77	81	85	89	93	TOT	W	W	W
	80	84	88	92	96		FUG	FUG	FUG
14/16	.0	.0	.0	.0	1.7	12	.0	.0	2.1
11/13	.0	.0	.2	.2	2.8	17	.0	.0	3.4
9/10	.0	.0	.0	1.5	1.5	18	.0	.0	3.4
7/8	.0	.0	1.5	4.7	4.3	49	.0	.0	10.4
6	.0	.0	1.7	3.6	3.4	41	.0	.0	8.7
5	.0	.4	4.5	6.0	.9	55	.2	.2	11.5
4	.0	.4	6.2	4.7	.4	55	.2	.2	11.5
3	.0	.2	4.7	.0	.0	43	.2	.2	9.4
2	.0	2.0	5.5	2.3	.0	51	.4	.4	10.4
1	.0	1.9	5.3	1.5	.0	41	.0	.0	8.7
0	.0	3.2	4.7	1.1	.0	42	.4	.4	8.2
-1	.2	1.3	1.7	.0	.0	13	.2	.2	3.0
-2	.6	.4	1.5	.0	.0	12	.0	.0	2.6
-3	.4	.2	.6	.0	.0	6	.0	.0	1.3
-4	.2	1.1	.4	.0	.0	8	.2	.2	1.5
-5	.0	.2	.0	.0	.0	1	.0	.0	.2
-7/-8	.0	.2	.0	.0	.0	1	.0	.0	.2
TOTAL	7	59	181	142	70	469	9	9	455
PCT	1.5	12.6	38.6	30.3	14.9	100.0	1.9	1.9	97.0

PERIOD (PRIMARY) JUNE AREA 0024 N. W. PERSIAN GULF  
(OVER-ALL) 1963-1970

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N					NE					PCT		
<1	1-3	4-10	11-21	22-33	34-47	48+	1-3	4-10	11-21	22-33	34-47	48+	PCT
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0

HGT	E					SE					PCT		
<1	1-3	4-10	11-21	22-33	34-47	48+	1-3	4-10	11-21	22-33	34-47	48+	PCT
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	2.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0

AREA 0024 N. W. PERSIAN GULF  
27.1N 50.3E

JUNE

TABLE 18

PERIODS: (PRIMARY)  
(OVER-ALL) 1963-1970

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
HGT	5.1	1.9	1.9	1.9	1.9	1.9	1.9	2.6	5.1	1.9	1.9	1.9	1.9	1.9
<1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3-4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5-6	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8-9	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10-11	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13-16	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17-19	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20-22	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23-25	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26-32	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33-40	0	0	0	0	0	0	0	0	0	0	0	0	0	0
41-48	0	0	0	0	0	0	0	0	0	0	0	0	0	0
49-60	0	0	0	0	0	0	0	0	0	0	0	0	0	0
61-70	0	0	0	0	0	0	0	0	0	0	0	0	0	0
71-86	0	0	0	0	0	0	0	0	0	0	0	0	0	0
87+	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOT PCT	5.1	1.9	1.9	1.9	1.9	1.9	1.9	2.6	5.1	1.9	1.9	1.9	1.9	1.9

	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
HGT	5.1	1.9	1.9	1.9	1.9	1.9	1.9	2.6	5.1	1.9	1.9	1.9	1.9	1.9
<1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3-4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5-6	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8-9	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10-11	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13-16	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17-19	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20-22	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23-25	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26-32	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33-40	0	0	0	0	0	0	0	0	0	0	0	0	0	0
41-48	0	0	0	0	0	0	0	0	0	0	0	0	0	0
49-60	0	0	0	0	0	0	0	0	0	0	0	0	0	0
61-70	0	0	0	0	0	0	0	0	0	0	0	0	0	0
71-86	0	0	0	0	0	0	0	0	0	0	0	0	0	0
87+	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOT PCT	5.1	1.9	1.9	1.9	1.9	1.9	1.9	2.6	5.1	1.9	1.9	1.9	1.9	1.9

PERIOD (PRIMARV:  
(CUEP ALL) 1943-1970

JUNE

AREA 0024 N. W. PERSIAN GULF  
27.1N 50.3E

TABLE 18 (CONT)

HGT	WIND SPEED (KTS) VS SEA HEIGHT (FT)							TOT OBS
	0-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	16.7	26.2	2.4	.0	.0	.0	45.2	
1-2	.0	19.0	16.7	.0	.0	.0	35.7	
3-4	2.4	2.4	7.1	.0	.0	.0	11.9	
5-6	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	2.4	4.8	.0	.0	7.1	
8-11	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	19.0	47.6	28.6	4.8	.0	.0	100.0	

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+ TOTAL	MEAN HGT
<6	19.7	14.7	20.1	2.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	152
6-7	.0	1.6	2.0	2.5	2.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	20
8-9	.0	.0	.0	2.0	.8	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6
12-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
INDET	20.5	2.0	1.6	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
TOTAL	24	57	58	19	9	3	0	0	0	0	0	0	0	0	0	0	0	0	0	63
PCT	40.2	23.4	23.8	7.8	3.7	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	244
																				100.0

JULY

PERIOD (PRIMARY) 1948-1970  
(OVER-ALL) 1910-1970AREA 0024 N. W. PERSIAN GULF  
27.4N 50.1E

TABLE 1

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	RAIN SHR	ORZL PCPN	PRECIPITATION TYPE			HAIL PCPN	PCT FREQ PCPN AT DB TIME	TOTAL PCPN OBS	THOR LTNG	OTHER WEATHER PHENOMENA					TOTAL OBS
			FRZG PCPN	SNOW PCPN	OTHER FRZN PCPN					FOG PCPN	SMOKE WD	HAZE PCPN	BLWG PCPN	DUST SNOW WEA	
N	.0	.0	.0	.0	.0	.0	.0	0	.0	.1	1.7	.9	10.1	48	
NE	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.1	2.2	11	
E	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.8	.0	2.2	11	
SE	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.8	.5	6.8	30	
S	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.3	1.8	7	
SW	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.3	.1	1.1	5	
W	.0	.0	.0	.0	.0	.0	.0	0	.0	.3	1.5	2.0	13.1	63	
NW	.0	.0	.0	.0	.0	.0	.0	0	.0	1.5	3.1	5.7	32.3	158	
VAR	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	0	
CALM	.0	.0	.0	.0	.0	.0	.0	0	.0	.3	2.4	1.3	5.9	37	
TOT OBS	.0	.0	.0	.0	.0	.0	.0	0	.0	.8	42	41	281	372	
TOT PCT	.0	.0	.0	.0	.0	.0	.0	0	.0	2.2	11.3	11.0	75.5	100.0	

TABLE 2

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	RAIN SHR	ORZL PCPN	PRECIPITATION TYPE			HAIL PCPN	PCT FREQ PCPN AT DB TIME	TOTAL PCPN OBS	THOR LTNG	OTHER WEATHER PHENOMENA					TOTAL OBS
			FRZG PCPN	SNOW PCPN	OTHER FRZN PCPN					FOG PCPN	SMOKE WD	HAZE PCPN	BLWG PCPN	DUST SNOW WEA	
0003	.0	.0	.0	.0	.0	.0	.0	0	.0	3.3	6.6	.0	12.1	75.0	91
0609	.0	.0	.0	.0	.0	.0	.0	0	.0	2.7	12.4	.0	19.7	72.2	113
1215	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	17.3	.0	11.2	71.4	98
1821	.0	.0	.0	.0	.0	.0	.0	0	.0	2.3	8.1	.0	10.5	79.1	86
TOT	.0	.0	.0	.0	.0	.0	.0	0	.0	.8	44	.0	42	296	388
PCT	.0	.0	.0	.0	.0	.0	.0	0	.0	2.1	11.3	.0	10.8	75.8	100.0

JULY

PERIOD (PRIMARY) 1948-1970  
(OVERALL) 1910-1970

AREA 0024 N. W. PERSIAN GULF  
27.4N 50.1E

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)										HOUR (GMT)											
	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPO	00	03	06	09	12	15	18	21					
N	1.3	7.9	3.6	.1	.0	.0	57	13.0	8.8	9.8	10.0	10.3	16.4	16.3	8.3	11.8	30.0					
NE	.5	1.0	.5	.0	.0	.0	13	2.9	7.0	4.3	.0	2.2	.0	2.3	2.3	5.0	.0					
E	.9	1.8	.3	.2	.0	.0	14	3.3	7.5	4.3	.0	1.8	5.3	2.2	.0	5.9	.0					
SE	2.7	3.5	.8	.0	.0	.0	30	7.0	5.3	4.0	.0	8.0	.0	.0	.0	10.6	3.3					
S	1.2	1.2	.0	.0	.0	.0	10	2.4	3.7	3.0	.0	.0	5.3	3.0	16.7	2.6	3.3					
SW	.5	1.2	.1	.0	.0	.0	7	1.7	6.1	4.0	.0	2.2	.0	.0	.0	.6	3.3					
W	1.0	12.2	6.9	.0	.0	.0	79	18.0	9.1	22.7	10.0	25.9	15.8	10.1	.0	12.6	23.3					
NW	2.8	21.0	16.7	1.2	.0	.0	184	41.8	10.3	38.6	60.0	41.3	44.7	49.3	50.0	36.8	30.0					
VAR	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0					
CALC	10.0	224	119	7	0	0	44	10.0	8.3	9.1	20.0	8.0	10.5	8.9	16.7	14.1	6.7					
TOT OBS	92	50.7	26.9	1.5	.0	.0	442	100.0		99	5	112	19	101	6	85	15					
TOT PCT	20.8	50.7	26.9	1.5	.0	.0	442	100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0					

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)										41+	TOTAL OBS	PCT		MEAN SPO	HOUR (GMT)						
	0-6	7-16	17-27	28-40						FREQ				00		03	06	09	12	15	18	21
N	5.3	5.9	1.6	.1						.0	57	13.0		5.8	9.9	11.5	16.4		14.5			
NE	1.4	1.5	.1	.0						.0	13	2.9		7.0	4.1	1.9	1.9		4.3			
E	1.8	1.5	.2	.0						.0	14	3.3		7.5	4.1	2.1	2.1		5.0			
SE	5.3	1.7	.0	.0						.0	30	7.0		5.3	3.8	6.9	7.7		9.5			
S	2.3	.2	.0	.0						.0	10	2.4		3.7	2.9	3.0	3.0		2.8			
SW	.9	.8	.0	.0						.0	7	1.7		6.1	3.8	1.9	1.9		1.0			
W	5.3	11.1	1.9	.0						.0	79	18.0		9.1	22.1	24.4	9.6		14.3			
NW	9.4	24.6	7.5	.1						.0	184	41.8		10.3	39.7	42.0	49.3		35.0			
VAR	.0	.0	.0	.0						.0	0	.0		.0	.0	.0	.0		.0			
CALC	10.0	209	10.9	.2						.0	44	10.0		.0	9.6	8.4	9.3		13.0			
TOT OBS	184	47.3	10.9	.2						.0	442	100.0		8.3	100.0	100.0	100.0		100.0			
TOT PCT	41.6	47.3	10.9	.2						.0	442	100.0		8.3	100.0	100.0	100.0		100.0			

JULY

PERIOD (PRIMARY) 1948-1970  
(OVERALL) 1910-1970

AREA 0024 N. W. PERSIAN GULF  
27.4N 50.1E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)	48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47		
00003	9.6	6.7	51.9	29.8	1.9	.0	8.8	104
06009	8.4	9.2	51.1	30.5	.8	.0	8.9	131
12015	9.3	14.0	48.6	26.2	1.9	.0	7.9	107
18021	13.0	14.0	51.0	20.0	2.0	.0	7.5	100
TOT	44	48	224	119	7	0	8.3	442
PCT	10.0	10.9	50.7	26.9	1.6	.0	100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)  
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8-10	TOTAL OBS	MEAN CLOUD COVER
N	11.1	.1	1.1	.0	41	.7
NE	3.3	.0	.0	.0	11	.2
E	2.7	.0	.0	.0	10	.5
SE	5.1	.9	.0	.0	30	.4
S	2.0	.0	.0	.0	6	.1
SW	1.6	.0	.0	.0	5	.0
W	15.6	.3	.7	.0	55	.5
NW	39.4	1.0	1.5	.3	142	.5
VAR	.0	.0	.0	.0	0	.0
CALM	9.8	.0	.0	.0	34	.2
TOT OBS	93.5	2.4	3.9	.3	337	.5
TOT PCT	93.5	2.4	3.9	.3	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH > 478)  
AND OCCURRENCE OF NH < 578 BY WIND DIRECTION

WIND DIR	000	149	150	299	300	300	599	600	999	1000	2000	3500	5000	8000+	NH < 578 TOTAL
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	41
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	11
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	10
SE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	30
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	55
NW	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	142
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	34
TOT OBS	2	0	0	0	0	0	0	0	0	0	1	0	0	0	337
TOT PCT	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	100.0



PERIOD: (PRIMARY) 1948-1970  
(OVER-ALL) 1910-1970

JULY

AREA 0024 N. W. PERSIAN GULF  
27.4N 50.1E

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE  
OF CEILING HEIGHT (NH >4/8) AND VSBY (NH)

CEILING (FEET)	OR >10	OR >5	OR >2	OR >1	OR >1/2	OR >1/4	OR >50YD	CR >0
OR >6500	.0	.3	.6	.6	.6	.6	.6	.6
OR >5000	.0	.3	.6	.9	.9	.9	.9	.9
OR >3500	.0	.3	.6	.9	.9	.9	.9	.9
OR >2000	.3	.6	.9	1.1	1.1	1.1	1.1	1.1
OR >1000	.3	.6	.9	1.1	1.1	1.1	1.1	1.1
OR >600	.3	.6	.9	1.1	1.1	1.1	1.1	1.1
OR >300	.3	.6	.9	1.1	1.1	1.1	1.1	1.1
OR >150	.3	.6	.9	1.1	1.1	1.1	1.1	1.1
OR >0	.3	.6	1.1	1.4	1.4	1.4	1.7	1.7
TOTAL	1	2	4	5	5	5	6	6

TOTAL NUMBER OF OBS: 35

PCT FREQ NH <5/8: 98.3

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	OSCO	TOTAL OBS
88.7	6.4	2.5	.0	.0	.0	.3	.6	.6	.0	1.1	362

PEP1001 (PRIMARY) 1948-1970  
(OVER-ALL) 1910-1970

JULY

AREA 0024 N. W. PERSIAN GULF  
27.4N 50.1E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OF NON-OCCURRENCE OF  
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
NO PCP	.0	.0	.0	.0	.0	.0	.0	1.1	.0	.0	1.1	
TOT %	.0	.0	.0	.0	.0	.0	.0	1.1	.0	.0	1.1	
PCF	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
NO PCF	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.1	
TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.1	
PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
NO PCP	.8	.0	.0	.0	.0	.0	.8	1.3	.0	.0	3.0	
TOT %	.8	.0	.0	.0	.0	.0	.8	1.3	.0	.0	3.0	
PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
NO PCP	.8	.0	.5	1.1	.2	.1	1.2	4.4	.0	1.3	9.7	
TOT %	.8	.0	.5	1.1	.2	.1	1.2	4.4	.0	1.3	9.7	
PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
NO PCP	3.6	.4	.9	3.4	1.3	.5	5.0	10.3	.0	2.7	28.0	
TOT %	3.6	.4	.9	3.4	1.3	.5	5.0	10.3	.0	2.7	28.0	
PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
NO PCP	7.6	2.5	1.5	3.6	.6	.9	9.8	24.6	.0	5.9	57.1	
TOT %	7.6	2.5	1.5	3.6	.6	.9	9.8	24.6	.0	5.9	57.1	
TOT OBS	12.8	2.9	3.0	8.2	2.1	1.5	17.0	42.7	.0	10.0	100.0	371
TOT PCT												

JULY

PERIOD: (PRIMARY) 1948-1970  
(OVER-ALL) 1910-1970AREA 0024 N. W. PERSIAN GULF  
27.6N 50.1E

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED  
WITH VARYING VALUES OF VISIBILITY

VSSY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.5	.0	.0	.5	.5
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	1.0	.0	.0	1.0	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.1	.4	.0	.0	.5	.5
	11-21	.0	.0	.0	.0	.0	.0	.0	.5	.0	.0	.5	.5
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.1	.8	.0	.0	1.0	
1<2	0-3	.0	.0	.0	.0	.0	.0	.2	.2	.0	.0	.5	.5
	4-10	.7	.0	.0	.0	.0	.0	.1	.8	.0	.0	1.7	1.7
	11-21	.0	.0	.0	.0	.0	.0	.4	.4	.0	.0	.7	.7
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.7	.0	.0	.0	.0	.0	.7	1.4	.0	.0	2.9	
2<5	0-3	.0	.0	.0	.1	.2	.0	.2	.1	.0	1.2	1.7	1.7
	4-10	.8	.0	.2	.7	.0	.0	.1	1.9	.0	.0	3.8	3.8
	11-21	.4	.0	.2	.2	.0	.0	.1	1.9	.0	.0	3.6	3.6
	22+	.0	.0	.2	.0	.0	.0	.0	.5	.0	.0	.7	.7
	TOT %	1.2	.0	.7	1.0	.2	.1	1.1	4.4	.0	1.2	9.8	
5<10	0-3	.1	.0	.5	.8	.4	.0	.2	.0	.0	2.4	5.3	5.3
	4-10	2.4	.3	.7	2.0	.8	.5	3.7	4.4	.0	.0	14.8	14.8
	11-21	.9	.1	.1	.1	.0	.0	1.1	4.2	.0	.0	6.4	6.4
	22+	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2	.2
	TOT %	3.4	.4	1.3	3.0	1.1	.5	5.0	9.6	.0	2.4	26.7	
10+	0-3	.8	.2	.5	2.0	.8	.5	.2	1.4	.0	6.4	12.9	12.9
	4-10	4.2	1.6	.8	.9	.2	.6	7.8	13.7	.0	.0	29.8	29.8
	11-21	2.4	.5	.0	.5	.0	.0	2.3	9.5	.0	.0	15.3	15.3
	22+	.0	.0	.0	.0	.0	.0	.0	.6	.0	.0	.7	.7
	TOT %	7.6	2.3	1.3	3.3	1.0	1.1	10.4	25.2	.0	6.4	58.7	
TOT OBS		419											
TOT PCT		12.9	2.7	3.3	7.3	2.5	1.7	17.3	42.4	.0	10.0	100.0	

PERIOD (PRIMARY) 1948-1970  
(OVER-ALL) 1910-1970

JULY

AREA 0024 N. W. PERSIAN GULF  
27.4N 50.1E

TABLE 10  
PERCENT FREQUENCY OF CEILING HEIGHTS (FEET) NH >4/8) AND  
OCCURRENCE OF NH <5/8 8' HOUR

HOUR (GMT)	000 140	150 290	300 590	300 590	600 990	1000 1990	2000 3490	3500 4990	5000 6490	6500 7990	8000+	TOTAL ANY HGT	NH <5/8 ANY HGT	TOTAL DBS
00003	.0	.0	.0	.0	.0	.0	1.2	.0	.0	.0	1.2	2.3	97.7	86
06009	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	100
12015	.0	.0	.0	.0	.0	.0	.0	.0	1.0	.0	.0	1.0	99.0	96
18021	2.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.3	3.9	96.1	77
TOT	2	0	0	0	0	0	1	0	1	0	2	6	353	359
PCT	.6	.0	.0	.0	.0	.0	.3	.0	.3	.0	.6	1.7	98.3	100.0

TABLE 11

PERCENT FREQUENCY VS8Y (NH) BY HOUR

HOUR (GMT)	<1/2 1/2	1/2-1 1-2	2-5 5-10	10+	TOTAL DBS
00003	1.2	.0	7.1	28.2	36.5
06009	.0	1.0	3.1	23.2	27.3
12015	1.0	1.0	8.3	27.1	37.4
18021	2.7	.0	10.7	32.0	45.4
TOT	4	2	30	97	133
PCT	1.1	.6	8.5	27.3	37.5

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VS8Y (NH) AND/OR  
CEILING HGT (FEET) NH >4/8) BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL DBS
00003	.0	1.2	8.2	1.2	90.6	85
06009	1.0	2.0	10.1	.0	89.9	99
12015	1.0	3.1	12.5	.0	87.5	96
18021	4.0	4.0	14.7	1.3	84.0	75
TOT	5	9	40	2	313	355
PCT	1.4	2.5	11.3	.6	88.2	100.0

JULY

PERIOD: (PRIMARY) 1948-1970  
(OVER-ALL) 1910-1970

AREA 0024 N. W. PERSIAN GULF  
27.4N 50.1E

TABLE 13

TEMP F	PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP										TOTAL OBS
	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100			
100/104	.6	.0	.9	.0	.0	.0	.0	.0			5
95/99	.3	.3	4.5	2.7	3.0	1.8	.6	.0			44
90/94	.0	1.2	3.0	9.6	14.2	12.7	6.6	1.2			161
85/89	.0	.0	.3	3.0	9.6	9.0	9.0	2.7			112
80/84	.0	.0	.0	.0	.9	.0	1.8	.3			10
TOTAL	3	5	29	51	92	78	60	14			332
PCT	.9	1.5	8.7	15.4	27.7	23.5	18.1	4.2			

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP										
N	NE	E	SE	S	SW	W	NW	VAR	CALM	
.5	.1	.0	.3	.0	.0	.0	.6	.0	.0	
3	.2	.2	.8	.2	.0	1.6	5.9	.0	1.2	
6.7	1.1	1.4	4.7	.8	.5	8.4	20.8	.0	4.2	
2.8	1.7	1.4	2.0	.5	.8	8.0	13.1	.0	3.6	
.0	.0	.0	.9	.2	.4	.5	1.1	.0	.0	
43	10	10	28	5	3	.61	13.7	.0	30	
13.2	3.0	3.0	8.6	1.7	1.7	18.4	41.4	.0	9.0	

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR										
HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS	
0000	98	95	93	83	84	82	82	88.2	107	
0600	103	100	97	92	86	84	84	91.7	137	
1200	103	102	100	93	88	86	86	93.5	111	
1800	100	98	94	84	84	81	81	89.5	103	
TOT	103	100	98	91	85	83	81	90.8	458	

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR										
HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
0000	.0	.0	.0	6.2	37.6	25.9	24.7	6.2	73	81
0600	.0	.0	.0	34.7	23.8	22.8	14.9	4.0	65	101
1200	2.3	25.6	28.7	23.0	23.0	8.2	2.3	63	87	
1800	1.4	21.6	20.3	21.6	29.7	5.4	72	74	74	
TOT	1.4	97	94	80	64	15	68	343		

PERIOD: (PRIMARY) 1948-1973  
(OVERALL) 1910-1973

JULY

AREA 0024 N. W. PERSIAN GULF  
27.4N 50.1E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)  
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	81	85	89	93	TOT	M	W	WU
	84	88	92	96		F03	F03	F03
14/16	.0	.0	.0	.0	12	.0	.0	1.6
11/13	.0	.0	.5	1.1	12	.0	.0	2.4
9/10	.0	.0	.0	1.9	19	.0	.0	3.5
7/8	.0	.0	.5	5.1	37	.3	.3	7.6
6	.0	.5	2.2	1.1	16	.0	.0	7.1
5	.0	.3	4.1	2.2	24	.3	.3	6.2
4	.3	1.4	9.5	2.7	53	.8	.8	13.2
3	.3	2.2	4.3	3.0	38	.0	.0	10.0
2	.3	2.6	3.8	1.4	28	.0	.0	7.8
1	.0	3.5	5.7	1.1	38	.0	.0	10.5
0	.8	3.5	5.4	.3	39	.5	.5	9.7
-1	.5	2.4	2.4	.0	20	.0	.0	5.4
-2	1.4	3.0	.5	.3	10	.3	.3	4.9
-3	.0	1.6	.5	.0	8	.0	.0	2.2
-4	.3	.5	.3	.0	4	.0	.0	1.1
-5	.0	.3	.0	.0	1	.0	.0	.3
-6	.3	.0	.0	.0	1	.0	.0	.3
TOTAL	15	80	147	74	370	8	8	333
PCT	4.1	21.6	39.7	20.6	100.0	2.2	2.2	50.3

PERIOD: (PRIMARY)  
(OVER-ALL) 1963-1970

JULY

TABLE 18

AREA 0024 N. P. PERSIAN GULF  
27.4N 50.1E

PCT FREQ C. WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N				NE				PCT					
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.3	12.8	4.3	.0	.0	.0	12.4	.0	3.6	2.0	.0	.0	.0	2.6
1-2	.0	2.3	.0	.0	.0	.0	2.3	.0	1.0	.0	.0	.0	.0	1.3
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-15	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.3	15.1	4.3	.0	.0	.0	23.7	.0	4.6	2.0	.0	.0	.0	5.9

HGT	E				SE				PCT				
	1-3	4-10	11-21	22-33	34-47	48+	1-3	4-10		11-21	22-33	34-47	48+
<1	2.6	1.3	.0	.0	.0	.0	2.6	2.6	.0	.0	.0	.0	5.9
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.6	1.3	.0	.0	.0	.0	2.6	2.6	.0	.0	.0	.0	5.9

AREA 0024 N. W. PERSIAN GULF  
27.4N 50.1E

JULY

TABLE 18

PERIOD: (PRIMARY)  
(OVER-ALL) 1963-1970

POT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.0	.0	.0	.0	.0	1.0	.0	4.3	.0	.0	.0	.0	4.3
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-80	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.0	.0	.0	.0	.0	1.0	.0	4.3	.0	.0	.0	.0	4.3

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	12.8	7.6	.0	.0	.0	20.4	.0	11.5	4.4	.0	.0	.0	17.4
1-2	.0	2.0	.0	.0	.0	.0	2.0	.0	4.9	6.6	.0	.0	.0	11.5
3-4	.0	1.3	1.3	.0	.0	.0	2.6	.0	.0	1.3	1.3	.0	.0	1.3
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.3	.0	.0	.0	1.3
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-80	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	16.1	9.9	.0	.0	.0	25.0	1.3	16.4	13.8	1.3	.0	.0	32.9



AREA 0024 N. W. PERSIAN GULF  
27.4N 50.1E

JULY

PERIOD: (PRIMARY) 1963-1970  
(OVER-ALL)

TABLE 18 (CONT)

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	13.8	48.9	17.3	.0	.0	.0	77.8	
1-2	.0	9.9	6.2	.0	.0	.0	16.0	
3-4	.0	1.2	1.2	.0	.0	.0	3.7	
5-6	.0	.0	1.2	.0	.0	.0	1.2	
7	.0	.0	1.2	.0	.0	.0	1.2	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13	.0	.0	.0	.0	.0	.0	.0	
14-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	13.6	58.0	27.2	1.2	.0	.0	100.0	81

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+ TOTAL	MEAN HGT
SEC1																				
<6	27.8	19.9	14.1	1.7	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	154
6-7	.0	.8	1.2	1.2	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9
8-9	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3
10-11	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
12-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
INDFT	24.9	2.9	2.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	74
TOTAL	127	58	45	8	2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	241
PCT	52.7	24.1	12.7	3.3	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0

PERIOD: (PRIMARY) 1948-1970  
(OVER-ALL) 1907-1970

AUGUST

AREA 0024 N. W. PERSIAN GULF  
27.1N 50.3E

TABLE 1  
PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	RAIN SHR	RAIN SHR	DRZL SHR	PRECIPITATION TYPE			HAIL PCPN	PCT FREQ PCPN AT DB TIME	TOTAL PCPN OBS	THDR LTNG	OTHER WEATHER PHENOMENA					TOTAL OBS
				FRZG PCPN	SNOW PCPN	OTHER PCPN					FG	SMOKE WD	HAZE PCPN	BLWG SNOW	DUST SIG	
N	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.5	.0	.0	.0	13.6	58
NE	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.2	.0	.0	8.0	34
E	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.5	.0	.0	12.8	55
SE	.0	.0	.0	.0	.0	.0	.0	.0	0	.1	.0	.5	.0	.0	7.0	31
S	.0	.0	.0	.0	.0	.0	.0	.0	0	.1	.0	.0	.0	.0	5.0	21
SW	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.1	.0	.0	3.9	16
W	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.2	.0	.0	11.5	52
NW	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.3	1.4	1.7	25.1	119	0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	6.0	26
CALM	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.4	.2	.0	.0	8	415
TOT OBS	.0	.0	.0	.0	.0	.0	.0	.0	0	.2	1.0	3.9	1.9	93.0	386	100.0
TOT PLY	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0

TABLE 2  
PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	RAIN	RAIN SHR	DRZL SHR	PRECIPITATION TYPE			HAIL PCPN	PCT FREQ PCPN AT DB TIME	TOTAL PCPN OBS	THDR LTNG	OTHER WEATHER PHENOMENA					TOTAL OBS
				FRZG PCPN	SNOW PCPN	OTHER PCPN					FG	SMOKE WD	HAZE PCPN	BLWG SNOW	DUST SIG	
00003	.0	.0	.0	.0	.0	.0	.0	.0	0	.9	.0	5.2	.0	1.7	92.2	116
0609	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	11.0	.0	3.3	85.7	91
12015	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.9	.0	.9	96.4	111
18021	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	1.8	96.4	110
TOT	.0	.0	.0	.0	.0	.0	.0	.0	0	1	.4	17	.8	8	398	728
PCT	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.9	4.0	1.9	1.9	93.0	100.0

PERIOD: (PRIMARY) 1948-1970  
(OVERALL) 1907-1970

AUGUST

AREA 0024 N. W. PERSIAN GULF  
27.1N 50.3E

TABLE 2

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)											
	0-3	4-10	11-21	22-33	34-47	48+			00	03	06	09	12	15	18	21				
N	2.2	7.6	2.8	.0	.0	.0	66	12.7	5.4	4.7	12.9	5.3	18.7	25.0	13.0	17.6				
NE	1.8	4.9	.9	.0	.0	.0	39	7.5	3.5	1.6	.5	11.1	12.6	23.2	9.2	8.8				
E	3.0	7.4	1.9	.0	.0	.0	64	12.3	10.8	4.7	7.9	16.7	19.2	16.1	20.3	11.8				
SE	1.3	5.3	1.0	.0	.0	.0	40	7.7	11.1	1.6	12.9	13.0	3.4	.0	5.8	11.8				
S	1.0	4.1	.0	.0	.0	.0	26	5.0	8.5	7.8	5.3	.0	3.4	.0	5.1	2.9				
SW	.8	2.7	.7	.0	.0	.0	22	4.2	7.2	12.5	4.1	.0	1.0	5.4	2.4	5.9				
W	2.0	9.7	3.5	.0	.0	.0	79	15.1	19.1	35.9	18.2	22.2	9.2	12.5	8.5	8.8				
NW	3.0	15.8	8.7	.6	.0	.0	152	25.0	21.9	31.3	35.0	27.8	39.6	14.3	25.4	20.6				
VAR	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0				
CALM	6.5	307	102	3	0	0	34	6.5	10.4	.0	5.3	.0	2.9	3.6	10.3	11.8				
TOT OBS	113	58.5	19.4	.6	.0	.0	525	7.1	106	32	75	27	103	23	117	17				
TOT PCT	21.3						100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0				

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)											
	0-6	7-16	17-27	28-40	41+				00	03	06	09	12	15	18	21				
N	6.0	6.2	.5	.0	.0	66	12.7	7.8	5.3	5.3	12.1	20.0	13.6	13.6	13.6	13.6				
NE	5.0	2.6	.0	.0	.0	39	7.5	6.0	3.1	3.1	2.9	14.9	9.1	9.1	9.1	9.1				
E	8.0	3.9	.4	.0	.0	64	12.3	6.3	9.4	9.4	9.8	10.7	19.2	19.2	19.2	19.2				
SE	4.7	3.0	.0	.0	.0	40	7.7	6.3	8.9	8.9	12.9	2.7	6.5	6.5	6.5	6.5				
S	4.0	1.1	.0	.0	.0	26	5.0	5.3	8.3	8.3	4.1	2.7	4.9	4.9	4.9	4.9				
SW	2.7	1.5	.0	.0	.0	22	4.2	5.4	10.0	10.0	1.6	1.9	2.8	2.8	2.8	2.8				
W	8.1	6.5	.5	.0	.0	79	15.1	7.6	23.0	23.0	19.1	5.9	8.6	8.6	8.6	8.6				
NW	9.2	17.3	2.4	.0	.0	152	29.0	9.3	24.1	24.1	33.4	34.2	24.8	24.8	24.8	24.8				
VAR	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0				
CALM	6.5	221	20	0	0	34	6.5	7.1	8.0	8.0	4.1	3.1	10.4	10.4	10.4	10.4				
TOT OBS	284	42.1	3.8	.0	.0	525	100.0		138	138	122	131	134	134	134	134				
TOT PCT	54.1						100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0				

AUGUST

PERIOD: (PRIMARY) 1948-1970  
(OVER-ALL) 1907-1970

AREA: 0024 N. W. PERSIAN GULF  
27.1N 50.3E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	WIND SPEED (KNOTS)				PCT FREQ	TOTAL OBS
	1-3	4-10	11-21	22-33	34-47	48+
0000	8.0	15.9	58.0	17.4	.0	.0
0600	4.1	11.5	63.1	19.7	.0	.0
1200	3.1	14.5	53.4	29.0	.0	.0
1800	10.4	17.9	59.7	11.9	.0	.0
TOT	34	79	307	102	3	7.1
PCT	6.5	15.0	58.5	19.4	.6	100.0

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)  
BY WIND DIRECTION

WIND DIR	PCT FREQ						TOTAL OBS	MEAN CLOUD COVER
	0-2	3-4	5-7	8-9	10-12	13-18		
N	13.3	.0	.2	.0	.0	.0	55	.1
NE	8.0	.2	.1	.0	.0	.0	31	.1
E	12.5	.1	.2	.0	.0	.0	52	.2
SE	7.2	.4	.2	.0	.0	.0	31	.4
S	5.4	.2	.0	.0	.0	.0	23	.2
SW	3.8	.2	.0	.0	.0	.0	16	.3
W	11.9	.5	.0	.0	.0	.0	50	.2
NW	28.5	.0	.2	.2	.2	.2	118	.2
CALM	.0	.0	.0	.0	.0	.0	0	.0
TOT OBS	61	7	5	2	2	2	26	.2
TOT PCT	92.8	1.7	1.2	.8	.8	.8	407	.2

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT) NH 24/24  
AND OCCURRENCE OF NH 45/8 BY WIND DIRECTION

WIND DIR	PERCENTAGE FREQUENCY												TOTAL OBS
	0-2	3-4	5-7	8-9	10-12	13-18	19-24	25-30	31-36	37-42	43-48	49-54	
N	13.3	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	55
NE	8.0	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	31
E	12.5	.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	52
SE	7.2	.4	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	31
S	5.4	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	23
SW	3.8	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	16
W	11.9	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	50
NW	28.5	.0	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	118
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
TOT OBS	61	7	5	2	2	2	2	2	2	2	2	2	26
TOT PCT	92.8	1.7	1.2	.8	.8	.8	.8	.8	.8	.8	.8	.8	407

PERIOD: (PRIMARY) 1948-1970  
(OVER-ALL) 1907-1970

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AREA 0024 N. W. PERSIAN GULF  
27.1N 50.3E

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE  
OF CEILING HEIGHT (NH > 3/8; AND VSBY (NM)

CEILING (FEET)	OR >10	OR >5	OR >2	VSBY (NM) OR >1	OR >1/2	OR >1/4	OR >50YD	OR >0
OR >5500	.3	.5	.5	.5	.5	.5	.5	.5
OR >5000	.5	.5	.7	.7	.7	.7	.7	.7
OR >3500	.5	.5	.7	.7	.7	.7	.7	.7
OR >2000	.7	.7	1.0	1.0	1.0	1.0	1.0	1.0
OR >1000	.7	1.0	1.2	1.2	1.2	1.2	1.2	1.2
OR >600	.7	1.0	1.2	1.2	1.2	1.2	1.2	1.2
OR >300	.7	1.0	1.2	1.2	1.2	1.2	1.2	1.2
OR >150	.7	1.0	1.2	1.2	1.2	1.2	1.2	1.2
OR >0	.7	1.0	1.2	1.2	1.2	1.2	1.2	1.2
TOTAL	3	4	5	5	5	5	5	5

TOTAL NUMBER OF OBS: 416

PCT FREQ NH < 3/8: 98.8

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
92.6	3.6	1.8	.7	.2	.4	.4	.2	.0	.0	448

AUGUST

PERIOD: (PRIMA-Y) 1948-1970  
(OUEP-ALL) 1907-1970

AREA 0024 N. W. PERSIAN GULF  
27.1N 50.3E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF  
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

WIND (NM)	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
NO PCP	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	
TOT %	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2	
PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
NO PCP	.1	.0	.0	.0	.0	.0	.0	.4	.0	.0	.5	
TOT %	.1	.0	.0	.0	.0	.0	.0	.4	.0	.0	.5	
PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
NO PCP	.0	.2	.0	.2	.0	.2	.2	1.2	.0	.2	2.4	
TOT %	.0	.2	.0	.2	.0	.2	.2	1.2	.0	.2	2.4	
PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
NO PCP	4.6	2.4	6.4	3.9	2.4	.5	3.2	6.8	.0	1.9	32.0	
TOT %	4.6	2.4	6.4	3.9	2.4	.5	3.2	6.8	.0	1.9	32.0	
PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
NO PCP	8.9	5.5	7.0	3.6	2.8	3.3	9.2	20.4	.0	4.1	64.8	
TOT %	8.9	5.5	7.0	3.6	2.8	3.3	9.2	20.4	.0	4.1	64.8	
TOT OBS	13.6	8.1	13.4	7.7	5.2	4.1	12.6	29.0	.0	6.3	100.0	412

PERIOD (PRIMARY) 1948-1970  
(OVER-ALL) 1907-1970

AUGUST

AREA 0024 N. W. PERSIAN GULF  
27.1N 50.3E

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED  
WITH VARYING VALUES OF VISIBILITY

USBY (H)	SPO KT	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	0-3	.0	.0	.0	.0	.0	.0	.2	.2	.0	.0	.4	
	4-10	.1	.0	.0	.0	.0	.0	.0	.1	.0	.0	.2	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.1	.0	.0	.0	.0	.0	.2	.3	.0	.0	.6	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	
	4-10	.0	.2	.4	.2	.0	.0	.3	.7	.0	.0	1.6	
	11-21	.0	.2	.0	.0	.0	.2	.0	.4	.0	.0	.8	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.4	.2	.2	.0	.2	.3	1.1	.0	.2	2.6	
5<10	0-3	.5	.2	.9	.2	.2	.1	.2	.5	.0	1.8	4.5	
	4-10	2.8	1.8	3.2	2.1	1.8	.3	2.1	2.9	.0	.0	17.0	
	11-21	.9	.1	1.6	1.1	.0	.1	1.1	2.2	.0	.0	7.3	
	22+	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2	
	TOT %	4.1	2.1	5.0	3.4	2.0	.5	3.3	5.9	.0	1.8	28.9	
10+	0-3	1.6	1.6	2.3	1.0	.9	.8	1.2	2.0	.0	4.3	15.8	
	4-10	4.5	3.1	4.1	2.9	2.4	2.4	7.0	13.1	.0	.0	39.3	
	11-21	2.1	.6	.2	.0	.0	.4	2.5	6.1	.0	.0	11.9	
	22+	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.4	
	TOT %	8.2	5.3	6.6	3.9	3.3	3.6	10.8	21.6	.0	4.3	67.6	
TOT OBS		12.4	7.8	12.7	7.5	5.3	4.3	14.7	29.0	.0	6.3	100.0	494
TOT PCT													

PERIOD: (PRIMARY) 1948-1970  
(OVER-ALL) 1967-1970

AUGUST

AREA: 0024 N. W. PERSIAN GULF  
27.1N 50.3E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH > 478) AND  
OCCURRENCE OF NH < 578 BY HOUR

HOUR (GMT)	003	150	300	450	600	750	900	1050	1200	1350	1500	1650	1800	1950	2100	2250	2400	TOTAL	NH < 578 ANY HGT	TOTAL	NH < 578 ANY HGT	TOTAL	NH < 578 ANY HGT	TOTAL
00003	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	1.5	98.5	131		
06009	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.1	3.2	96.8	94		
12015	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	109		
18021	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	114		
TOT	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	5	443	448		
PCT	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	1.1	98.9	100.0		

TABLE 11

PERCENT FREQUENCY VSBY (NH) BY HOUR

HOUR (GMT)	<1/2	1/2-1	1-2	2-5	5-10	10+	TOTAL OBS
00003	.0	.0	.0	2.6	27.4	70.1	117
06009	.0	.0	.0	2.3	40.9	56.8	88
12015	.0	.0	.0	2.8	25.0	72.2	108
18021	.0	.0	.0	2.9	29.1	67.0	103
TOT	.0	.0	.0	11	125	279	416
PCT	.0	.0	.0	2.6	30.0	67.1	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NH) AND/OR  
CEILING HGT (FEET, NH > 478) BY HOUR

HOUR (GMT)	<150	<500	<1000	1000+	NH < 578 AND 5+	TOTAL OBS
00003	.0	.0	2.6	.9	96.6	117
06009	.0	.0	2.3	3.4	94.3	88
12015	.0	.0	2.8	.0	97.2	108
18021	1.0	1.0	3.9	.0	96.1	103
TOT	1	1	12	4	400	416
PCT	.2	.2	2.9	1.0	96.2	100.0



## AUGUST

PERIOD: (PRIMARY) 1948-1970  
(OVER-ALL) 1907-1970AREA 0024 N. W. PERSIAN GULF  
27.1N 50.3E

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP										
TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL DPS	PCT FREQ
100/104	.0	.3	.0	.3	.0	.5	.0	.0	4	1.0
95/90	.0	1.8	.5	2.3	7.0	4.4	2.6	.8	75	19.5
90/94	.0	.3	2.3	3.6	8.9	17.4	18.2	7.0	222	57.8
85/89	.0	.0	.0	.0	.8	1.6	8.6	9.1	77	20.1
80/84	.0	.0	.0	.0	.0	.0	.0	1.6	6	1.6
TOTAL	.0	9	11	24	64	42	113	71	384	100.0
PCT	.0	2.3	2.9	6.3	16.7	24.0	29.4	18.5		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP										
	N	NE	E	SE	S	SW	W	NW	VAR	CALM
100/104	.2	.3	.0	.0	.0	.0	.0	.3	.0	.3
95/90	3.7	1.8	2.0	1.0	.7	.1	2.2	7.5	.0	.5
90/94	7.2	2.9	7.2	4.7	4.0	1.5	7.7	18.6	.0	3.9
85/89	1.8	2.1	2.7	1.4	1.6	1.5	3.3	4.2	.0	1.6
80/84	.3	.0	.3	.0	.0	.5	.3	.3	.0	.0
TOTAL	50	27	46	27	24	14	51	118	0	24
PCT	13.2	7.0	12.2	7.1	6.3	3.6	13.5	30.9	.0	6.3

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR									
HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL DBS
00003	100	98	94	90	85	82	82	89.9	141
06009	101	100	97	93	89	86	85	92.8	125
12015	102	101	99	94	90	87	85	94.1	137
18021	98	97	95	92	87	85	85	91.2	137
TOT	102	100	97	92	87	83	82	91	530

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR								
HOUR (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL DBS
00003	.0	9.0	12.6	14.4	30.6	33.3	81	111
06009	.0	15.1	16.3	25.6	27.9	15.1	74	86
12015	.0	19.6	27.2	26.1	23.9	3.3	71	92
18021	.0	4.7	11.3	33.0	33.0	17.9	79	106
TOT	.0	46	65	97	115	72	77	395

PERIOD (PRIMARY) 1948-1970  
(OVER-ALL) 1907-1970

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AREA 0024 N. W. PERSIAN GULF  
27.1N 50.3E

TABLE 17

PCT REQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)  
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	81 84	85 88	89 92	93 96	TOT	M FOG	WD FOG
11/13	.0	.0	.0	.7	7	.0	1.2
9/10	.0	.0	.0	.5	10	.0	1.5
7/8	.0	.0	.2	1.0	15	.0	2.4
6	.0	.0	.7	1.0	9	.0	2.0
5	.0	.2	.2	2.4	22	.0	4.1
4	.0	.0	1.2	3.2	20	.0	4.6
3	.0	.0	2.4	2.7	24	.0	5.6
2	.0	.7	3.2	3.4	30	.5	6.8
1	.0	.3	3.4	3.6	30	.2	7.3
0	.0	2.0	7.3	5.6	61	.2	14.6
-1	.0	1.0	4.4	6.8	50	.2	12.0
-2	.0	1.5	4.1	3.7	38	.0	9.3
-3	.0	1.7	5.1	.5	30	.0	7.3
-4	.2	1.2	4.1	.0	23	.0	5.6
-5	.2	1.7	2.4	.2	15	.0	3.7
-6	.2	1.0	2.0	.0	13	.0	3.2
-7/-8	.7	2.4	.0	.0	13	.0	3.2
TOTAL	6	53	168	145	410	.4	387
PCT	1.5	12.9	41.0	35.4	100.0	1.0	94.4

PERIOD: (PRIMARY)  
(OVER-ALL) 1963-1970

AUGUST  
TABLE 18

AREA 0024 N. W. PERSIAN GULF  
27.1N 50.3E

POT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N					NE					48+	PCT
	1-3	4-10	11-21	22-33	34-47	48+	1-3	4-10	11-21	22-33	34-47	
1-2	2.0	3.6	2.0	.0	.0	.0	.0	.0	2.0	.0	.0	2.0
3-4	.0	2.0	.0	.0	.0	.0	.5	.5	2.0	.0	.0	3.1
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT FCT	2.0	5.6	2.0	.0	.0	.0	.5	.5	4.1	.0	.0	5.1

HGT	E					SE					48+	PCT
	1-3	4-10	11-21	22-33	34-47	48+	1-3	4-10	11-21	22-33	34-47	
1-2	3.6	2.0	.0	.0	.0	.0	2.0	2.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.1
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	3.6	4.1	.0	.0	.0	.0	2.0	2.0	.0	.0	.0	4.1

PERIOD: (PRIMARY)  
(OVER-ALL) 1963-1970

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TABLE 18

AREA 0024 N. W. PERSIAN GULF  
27.1N 50.3E

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S										SW										PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-15	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-28	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.0	.0	.0	.0	.0	2.0	2.0	4.1	4.1	.0	.0	.0	10.2	.0	.0	.0	.0	.0	.0	.0

HGT	W										NW										PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	14.3	3.6	.0	.0	.0	17.9	6.1	28.6	8.7	.0	.0	.0	43.4	.0	.0	.0	.0	.0	.0	.0

AREA 0024 N. W. PERSIAN GULF  
27.1N 50.3E

AUGUST

PERIOD (PRIMARY)  
(OVER-ALL) 1963-1970

TABLE 18 (CONT)

WIND SPEED (KTS) VS SEA HEIGHT (FT)								TOT OBS
HGT	0-3	4-10	11-21	22-33	34-47	48+	PCY	
<1	14.5	20.0	3.6	.0	.0	.0	38.3	
1-2	10.9	27.3	10.9	.0	.0	.0	49.1	
3-4	.0	3.6	5.5	.0	.0	.0	9.1	
5-6	.0	3.6	.0	.0	.0	.0	3.6	
7	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PC"	25.5	54.5	20.0	.0	.0	.0	100.0	55

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	9-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+ TOTAL	MEAN HGT
<6	6.4	47.8	11.6	.8	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	167
6-7	.0	1.2	2.0	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	11
8-9	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1
12-13	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1
INDET	22.9	4.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	69
TOTAL	22.73	122	37	6	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	249
PCT	29.3	53.0	14.9	2.4	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0

PERIOD (PRIMARY) 1953-1970  
(OVER-ALL) 1907-1970

SEPTEMBER

AREA 0024, N. W. PERSIAN GULF  
17.2N 50.2E

TABLE 1  
PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	RAIN SHR	OILZL	PRECIPITATION TYPE			HAIL	PCT FREQ PCPN AT UB TIME	TOTAL PCPN OBS	THOR LTNG	OTHER WEATHER PHENOMENA					TOTAL OBS
			ORZL PCPN	FRZG PCPN	SNOW PCPN					OTHER FRZG PCPN	FOG NO PCPN	SMOKE HAZE	DUST BLWG	DUST SNOW	
N	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.8	.1	14.3	91	
NE	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.4	.0	8.0	48	
E	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.5	.0	8.7	55	
SE	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.2	.0	5.0	31	
S	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.2	.0	3.6	24	
SW	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.2	.0	6.7	42	
W	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.2	.0	11.6	70	
NW	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	1.3	.7	31.0	199	
VAR	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	0	
CALM	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.7	.2	5.8	40	
TOT OBS	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	23	6	571	603	
TOT PCT	.0	.0	.0	.0	.0	.0	.0	0	.0	.2	4.1	1.0	94.7	100.0	

TABLE 2  
PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (G+T)	RAIN SHR	RAIN SHR	DIRZL	PRECIPITATION TYPE				HAIL	PCT FREQ PCPN AT DB TIME	TOTAL PCPN OBS	THOR LT-IG	OTHER WEATHER PHENOMENA					TOTAL OBS
				ORZL PCPN	FRZG PCPN	SNOW PCPN	OTHER FRZN PCPN					FOG NO PCPN	SMOKE HAZE	DUST BLWG	DUST SNOW	SIG SEA	
00003	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.6	6.4	.6	92.3	156	
06009	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	5.7	.6	93.7	158	
12015	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	2.2	.6	96.2	157	
18021	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	1.4	2.1	96.5	142	
TOT	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	1	26	6	580	613	
PCT	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.2	4.2	1.0	94.6	100.0	

SEPTEMBER

AREA 0024 N. W. PERSIAN GULF  
27.2N 50.2E

PERIOD: (PRIMARY) 1953-1970  
(OVER-ALL) 1907-1970

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)										48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)					
	0-3	4-10	11-21	22-33	34-47	00	03	06	09	12					15	18	21			
N	1.8	8.6	3.6	.7	.0	.0	98	14.7	9.1	10.3	7.9	12.9	21.8	20.1	9.5	16.1	9.7			
NE	1.9	5.8	.4	.0	.0	.0	54	8.0	5.5	4.8	10.3	1.6	9.7	9.0	28.6	12.8	11.1			
E	2.7	4.7	1.3	.0	.0	.0	58	8.7	5.9	6.0	10.5	6.0	6.5	6.6	28.6	14.1	5.6			
SE	1.8	3.4	.1	.0	.0	.0	36	5.4	5.0	5.3	5.3	6.4	9.7	3.7	2.4	5.9	.0			
S	2.1	2.5	.0	.0	.0	.0	30	4.5	4.1	4.5	5.3	6.2	14.5	3.4	.0	2.4	5.6			
SW	3.7	2.6	.2	.0	.0	.0	43	6.5	4.0	14.8	13.2	8.6	1.6	2.7	4.8	1.4	.0			
W	2.9	7.9	1.4	.0	.0	.0	82	12.3	5.9	17.2	35.5	19.3	8.1	7.9	7.1	3.1	12.5			
NW	3.4	19.2	8.9	1.2	.0	.0	220	32.8	9.1	28.1	11.8	36.4	21.8	40.5	19.0	31.6	44.4			
VAR	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
CALM	7.0						47	7.0	.0	8.3	.0	2.8	6.5	6.1	.0	12.5	11.1			
TOT OBS	184	367	107	13	0	0	671		6.7	145	19	145	31	148	21	144	18			
TOT PCT	27.4	54.7	15.9	1.9	.0	.0	100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0			

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)						41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)									
	0-6	7-16	17-27	28-40							00	03	06	09	12	15	18	21		
N	5.8	7.3	1.6	.0	.0	.0	98	14.7	9.1		10.1	14.5	18.8	15.4						
NE	5.7	2.3	.0	.0	.0	.0	54	8.0	5.5		5.5	3.0	11.4	12.7						
E	6.1	2.3	.3	.0	.0	.0	58	8.7	5.9		6.6	6.1	9.3	13.1						
SE	4.1	1.3	.0	.0	.0	.0	36	5.4	5.0		7.0	7.0	3.6	5.2						
S	3.8	.7	.0	.0	.0	.0	30	4.5	4.1		4.4	7.7	3.0	2.8						
SW	5.7	.7	.1	.0	.0	.0	43	6.5	4.0		14.6	7.2	3.0	1.2						
W	8.4	3.8	.0	.0	.0	.0	82	12.3	5.9		19.4	17.3	7.8	4.2						
NW	12.4	17.4	3.0	.0	.0	.0	220	32.8	9.1		26.2	33.8	37.9	33.0						
VAR	.0	.0	.0	.0	.0	.0	0	.0	.0		.0	.0	.0	.0						
CALM	7.0						47	7.0	.0		7.3	3.4	5.3	12.3						
TOT OBS	396	241	34	0	0	0	671		6.7		164	176	169	162						
TOT PCT	59.0	35.9	5.1	.0	.0	.0	100.0				100.0	100.0	100.0	100.0						

SEPTEMBER

PERIOD (PRIMARY) 1953-1970  
(OVER-ALL) 1907-1970

AREA 0024 N. W. PERSIAN GULF  
27.2N 50.2E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS)				PCT FREQ	TOTAL OBS
		1-3	4-10	11-21	22-33	34-47	
0000Z	7.3	25.6	55.5	9.8	1.8	.0	164
0600Z	2.4	25.0	52.3	17.6	1.7	.0	176
1201Z	2.3	11.8	56.8	23.1	3.0	.0	169
1802Z	12.3	19.1	54.3	13.0	1.2	.0	162
TOT	47	137	307	107	13	.0	671
PCT	7.0	20.4	54.7	15.9	1.9	.0	100.0

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)  
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8-9	TOTAL		MEAN CLOUD COVER
					OBS	OBS	
N	15.3	.0	.0	.0	91	.0	.0
NE	8.0	.0	.0	.0	47	.2	.2
E	9.4	.0	.0	.0	36	.1	.1
SE	5.2	.2	.0	.0	32	.1	.1
S	3.7	.0	.2	.0	23	.2	.2
SW	6.9	.0	.0	.0	41	.1	.1
W	11.7	.2	.0	.0	70	.1	.1
NW	32.2	.2	.0	.0	174	.1	.1
VAR	.0	.0	.0	.0	0	.0	.0
CALM	6.7	.0	.0	.0	40	.1	.1
TOT OBS	591	3	1	1	596	.1	.1
TOT PCT	99.2	.5	.2	.2	100.0		

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH > 4/8)  
AND OCCURRENCE OF NH < 5/8 BY WIND DIRECTION

WIND DIR	000	149	150	299	300	599	600	999	1000	1999	2000	3499	3500	4999	5000	6499	6500	8000+	NH < 5/8	TOTAL
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	15.3	91
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8.0	47
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9.4	56
SE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.2	32
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.7	23
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.9	41
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	11.7	70
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	32.2	174
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.7	40
TOT OBS	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	59.5	596
TOT PCT	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	99.8	100.0



AREA 002 N. W. PERSIAN GULF  
27.2N 50.2E

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE  
OF CEILING HEIGHT (NH > 4/B) AND YSBY (NM)

	CEILING (FEET)	= OR >10	= OR >5	= OR >2	VSBY (NM) = OR >1	= OR >1/2	= OR >1/4	= OR >50%	= OR >0
#	>6000	0	0	0	0	0	0	0	0
#	>5000	0	0	0	0	0	0	0	0
#	>3500	0	0	0	0	0	0	0	0
#	>2000	0	0	0	0	0	0	0	0
#	>1000	0	0	0	0	0	0	0	0
#	>600	0	0	0	0	0	0	0	0
#	>300	0	0	0	0	0	0	0	0
#	>100	0	0	0	0	0	0	0	0
#	TOTAL	0	0	0	0	0	0	0	0

TOTAL NUMBER OF OBSI	PCT FREQ NH <5/81	99.8
390		

TABLE 7A  
PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

[illegible]

SEPTEMBER

PERIOD: (PRIMARY) 1953-1970  
(OVERALL) 1907-1970

AREA 0024 N. W. PERSIAN GULF  
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TABLE 5  
PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF  
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VISBY (NM)	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
NO PCP	.1	.1	.1	.0	.0	.2	.0	.1	.0	.2	.7	
TOT 1	.1	.1	.1	.0	.0	.2	.0	.1	.0	.2	.7	
PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
NO PCP	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2	
TOT 1	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2	
PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
NO PCP	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2	
TOT 1	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2	
PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
NO PCP	.0	.0	.2	.0	.2	.0	.0	.3	.0	.2	.8	
TOT 1	.0	.0	.2	.0	.2	.0	.0	.3	.0	.2	.8	
PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
NO PCP	4.8	1.3	1.6	.6	.7	1.3	3.2	10.8	.0	.5	24.8	
TOT 1	4.8	1.3	1.6	.6	.7	1.3	3.2	10.8	.0	.5	24.8	
PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
NO PCP	10.1	6.7	7.0	4.5	3.0	5.7	8.6	21.9	.0	5.9	73.4	
TOT 1	10.1	6.7	7.0	4.5	3.0	5.7	8.6	21.9	.0	5.9	73.4	
TOT OBS	15.0	8.0	8.9	5.1	3.9	7.1	11.8	33.4	.0	6.7	100.0	593

PERIOD: (PRIMARY) 1953-1970  
(OVER-ALL) 1907-1970

SEPTEMBER

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED  
WITH VARYING VALUES OF VISIBILITY

WSBY (NM)	SPO KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.2	.0	.0	.0	.2	.3
	4-10	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.3
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.1	.1	.1	.0	.0	.2	.0	.0	.0	.2	.6
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.2	.3	.0	.0	.0	.0	.0	.0	.0	.2
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.2	.3	.0	.0	.0	.0	.0	.0	.0	.2
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.2	.0	.2	.0	.0	.0	.0	.0	.0	.2	.2
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.2	.0	.2	.0	.0	.0	.0	.0	.0	.2	.2
5<10	0-3	.2	.3	.3	.2	.2	.3	.4	.6	.0	.5	.2
	4-10	2.6	.9	.9	.4	.5	1.0	2.1	5.2	.0	.0	13.4
	11-21	1.3	.2	.9	.0	.0	.2	.7	4.3	.0	.0	7.6
	22+	.2	.0	.0	.0	.0	.0	.0	.3	.0	.0	.5
	TOT %	4.5	1.2	1.7	.6	.7	1.2	3.2	10.4	.0	.5	23.6
10+	0-3	1.7	1.8	2.3	1.6	1.9	3.7	2.7	3.1	.0	6.3	25.1
	4-10	5.7	4.7	4.2	2.7	1.7	1.7	5.4	14.4	.0	.0	40.4
	11-21	2.1	.2	.3	.2	.0	.1	.7	4.5	.0	.0	8.0
	22+	.2	.0	.0	.0	.0	.0	.0	.4	.0	.0	.6
	TOT %	9.7	6.7	6.8	4.4	3.6	5.5	9.0	22.4	.0	6.3	74.1
TOT OBS		14.5	8.0	8.8	5.0	4.4	6.8	11.9	33.4	.0	7.1	100.0
TOT PCT												534

SEPTEMBER

PERIOD: (PRIMARY) 1953-1970  
(OVER-ALL) 1907-1970

AREA 0024 N. W. PERSIAN GULF  
27.2N 50.2E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH > 4/8) AND  
OCCURRENCE OF NH < 5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH < 5/8 ANY HGT	TOTAL OBS
00003	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	158
06009	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	99.4	154
12015	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	155
18021	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	139
TOT	1	0	0	0	0	0	0	0	0	0	1	605	606
PCT	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	99.8	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	< 1/2	1/2-1	1-2	2-5	5-10	10+	TOTAL OBS
00003	.6	.0	.0	.6	28.4	70.3	155
06009	.0	.0	.0	.7	25.2	74.1	147
12015	.7	.0	.7	.7	20.7	77.3	150
18021	.7	.7	.0	1.4	23.2	73.9	138
TOT	3	1	1	5	144	436	590
PCT	.5	.2	.2	.8	24.4	73.9	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR  
CEILING HGT (FEET, NH > 4/8) BY HOUR

HOUR (GMT)	< 150 < 500	< 100 < 1000	1000+ < 5 AND 5+	NH < 5/8 AND 5+	TOTAL OBS
00003	.0	.6	1.3	.0	98.7
06009	.7	.7	1.4	.0	98.6
12015	.0	.7	2.0	.0	98.0
18021	.0	1.4	2.9	.0	97.1
TOT	1	5	11	0	579
PCT	.2	.8	1.9	.0	98.1

SEPTEMBER

PERIOD: (PRIMARY) 1953-1970  
(OVER-ALL) 1907-1970

AREA 0024 N. W. PERSIAN GULF  
27.2N 50.2E

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP											
TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ	TOTAL PCT
100/104	.0	.0	.0	.2	.2	.2	.0	.0	5	1.1	5
95/99	.0	.0	.4	.9	2.2	2.4	.7	.0	30	6.6	30
90/94	.0	.0	1.3	4.2	11.0	17.1	11.4	3.1	219	48.1	219
85/89	.0	.0	.0	.7	4.4	10.1	13.0	9.0	169	37.1	169
80/84	.0	.0	.0	.0	.0	.2	1.8	4.6	30	6.6	30
75/79	.0	.0	.0	.0	.0	.0	.2	.2	2	.4	2
TOTAL	.0	.0	10	27	81	137	123	77	455	100.0	455
PCT	.0	.0	2.2	5.9	17.8	30.1	27.0	16.9			

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP											
	N	NE	E	SE	S	SW	W	NW	VAR	CALM	
100/104	.4	.3	.0	.0	.0	.0	.2	.0	.0	.2	
95/99	.3	.5	.5	.5	.5	.3	.7	2.4	.0	.2	
90/94	8.3	4.5	5.5	2.3	2.4	1.9	3.7	17.3	.0	2.2	
85/89	6.6	3.7	3.9	1.5	.8	2.6	4.9	10.7	.0	2.4	
80/84	.0	.4	.2	.5	.0	1.4	1.2	2.9	.0	.0	
75/79	.0	.0	.0	.0	.0	.0	.4	.0	.0	.0	
TOTAL	73	43	46	22	17	28	51	151	0	23	
PCT	16.2	9.5	10.1	4.9	3.7	6.2	11.2	33.2	.0	5.1	

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR											
HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS		
00003	95	94	92	88	81	79	78	87.3	149		
06009	99	98	95	91	86	83	79	90.9	165		
12015	103	102	99	92	88	87	81	92.1	139		
18021	95	94	93	90	85	82	80	89.2	140		
TOT	103	99	95	90	83	80	78	89.9	593		

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR											
HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS	
00003	.0	.0	.0	.0	.0	.0	.0	.0	.0	126	
06009	.0	.0	.0	.0	.0	.0	.0	.0	.0	119	
12015	.0	.0	.0	.0	.0	.0	.0	.0	.0	110	
18021	.0	.0	.0	.0	.0	.0	.0	.0	.0	112	
TOT	.0	.0	.0	.0	.0	.0	.0	.0	.0	463	

SEPTEMBER

AREA 0024 N. W. PERSIAN GULF  
27.2N 50.2E

PERIOD: (PRIMARY) 1953-1970  
(OVER-ALL) 1907-1970

TABLE 17

PCT FRQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)  
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	77	81	85	89	93	TOT	N	NO FOG
11/13	.0	.0	.0	.2	.0	1	.0	.2
9/10	.0	.0	.0	.0	.0	2	.0	.2
7/8	.0	.0	.0	.0	.6	15	.0	1.8
6	.0	.0	.2	.2	1.0	7	.0	1.4
5	.0	.0	.2	.4	1.0	14	.0	2.6
4	.0	.0	.0	2.0	1.6	21	.0	4.0
3	.0	.0	.2	2.6	1.6	22	.0	4.4
2	.0	.0	.4	4.0	2.2	35	.0	6.6
1	.0	.0	1.0	3.8	1.4	31	.0	6.2
0	.0	.0	3.2	8.6	2.0	71	.0	14.0
-1	.0	.0	3.4	4.2	2.4	50	.0	10.0
-2	.0	.0	3.0	4.0	3.8	54	.0	10.8
-3	.0	.2	3.2	5.6	.0	46	.0	9.2
-4	.0	.8	3.2	2.0	.2	31	.0	6.2
-5	.0	1.0	1.6	2.8	.0	27	.0	5.4
-6	.2	1.4	1.0	2.2	.0	24	.0	4.8
-7/-8	.8	1.4	5.0	1.0	.0	41	.0	8.2
-9/-10	.2	.2	.4	.0	.0	4	.0	.8
-11/-13	.0	.4	.2	.0	.0	3	.0	.6
TOTAL	.6	27	131	219	90	499	.0	486
PCT	1.2	5.4	26.3	45.9	18.0	100.0		97.4

SEPTEMBER  
TABLE 18  
AREA 0024 N. W. PERSIAN GULF  
27.2N 50.2E

PERIOD: (PRIMARY)  
(OVER-ALL) 1963-1970

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	2.0	12.8	.0	.0	.0	.0	14.2	.0	5.2	.0	.0	.0	.0	5.2
1-2	.0	.6	.7	.0	.0	.0	1.9	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	1.1	.0	.0	.0	1.1	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.6	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.6	13.2	1.9	.6	.0	.0	19.3	.0	5.2	.0	.0	.0	.0	5.2

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.6	4.1	.0	.0	.0	.0	4.6	.2	3.0	.0	.0	.0	.0	3.1
1-2	.0	.0	.0	.0	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.6	4.8	.0	.0	.0	.0	5.4	.2	3.0	.0	.0	.0	.0	3.1

SEPTEMBER  
AREA 0024 N. W. PERSIAN GULF  
27.2N 50.2E

PERIOD: (PRIMARY)  
(OVER-ALL) 1963-1970

TABLE 18  
PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S					SW					PCT		
	1-3	4-10	11-21	22-33	34-47	48+	1-3	4-10	11-21	22-33		34-47	48+
<1	.0	2.2	.0	.0	.0	.0	.7	6.1	.0	.0	.0	.0	6.9
1-2	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-85	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.7	6.1	.0	.0	.0	.0	6.9
TOT PCT	.0	3.0	.0	.0	.0	.0	.7	6.1	.0	.0	.0	.0	6.9

HGT	1-3	4-10	11-21	W	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.7	9.8	.6		.0	.0	.0	11.1	2.4	.0	11.2	.0	.0	.0	28.3
1-2	.0	1.1	.7		.0	.0	.0	1.9	2.4	25.7	3.7	.0	.0	.0	8.1
3-4	.0	.0	.0		.0	.0	.0	.0	.7	4.3	5.6	.7	.0	.0	7.9
5-6	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-85	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.7	10.9	1.3		.0	.0	.0	13.0	2.3	30.7	10.2	.9	.0	.0	45.2



SEPTEMBER

AREA 0024 N. W. PERSIAN GULF  
27.2N 50.2E

PERIOD: (PRIMARY)  
(OVER-ALL) 1963-1970

TABLE 18 (CONT)

WIND SPEED (KTS) VS SEA HEIGHT (FT)								TOT OBS
HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	0.6	65.3	.7	.0	.0	.0	76.8	
1-2	1.4	6.3	4.9	.0	.0	.0	12.7	
3-4	.7	1.4	6.3	.7	.0	.0	9.2	
5-6	.0	.0	.7	.7	.0	.0	1.4	
7	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.7	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	12.7	73.2	12.7	1.4	.0	.0	100.0	142

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)																		87+ TOTAL	MEAN HGT		
	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86				
<6	27.2	32.5	7.9	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	269	1
6-7	.0	.5	2.3	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	15	2
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
10-11	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	
12-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
INDET	24.6	1.8	.8	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	109	0
TOTAL	204	138	43	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	294	1
PCT	51.5	35.0	10.9	2.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1948-1970  
(OVER-ALL) 1912-1970

OCTOBER

AREA 0024 N. W. PERSIAN GULF  
27.4N 50.0E

TABLE 1  
PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	RAIN SHR	RAIN SHR	ORZL PCPN	PRECIPITATION TYPE			HAIL	PCT PCPN AT DB TIME	TOTAL PCPN OBS	THOR LTNG	OTHER WEATHER PHENOMENA					TOTAL OBS
				FRZG PCPN	SNOW PCPN	OTHER PCPN					FOG	SMOKE	HAZE	BLWG	DUST SNOW	
N	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.5	.0	.0	93
NE	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.2	.0	.0	50
E	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.3	.0	.0	51
SE	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	74
S	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.2	.0	37
SW	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.2	.0	.0	50
W	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.2	.0	.0	58
NW	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.5	.0	.0	122
VAR	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	31
TOT OBS	0	0	0	0	0	0	0	0	0	1	0	9	2	2	524	526
TOT PCT	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	1.7	.4	.4	97.8	100.0

TABLE 2  
PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	RAIN SHR	RAIN SHR	ORZL PCPN	PRECIPITATION TYPE			HAIL	PCT PCPN AT DB TIME	TOTAL PCPN OBS	THOR LTNG	OTHER WEATHER PHENOMENA					TOTAL OBS
				FRZG PCPN	SNOW PCPN	OTHER PCPN					FOG	SMOKE	HAZE	BLWG	DUST SNOW	
0000Z	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	125
0600Z	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	159
1200Z	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	155
1800Z	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	126
TOT	0	0	0	0	0	0	0	0	0	1	0	9	2	2	555	545
PCT	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	1.7	.4	.4	97.8	100.0

OCTOBER

PERIOD: (PRIMARY) 1948-1970  
(OVER-ALL) 1912-1970

AREA 0024 N. W. PERSIAN GULF  
27.4N 50.0E

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPO	HOUR (GMT)											
	0-3	4-10	11-21	22-33	34-47				48+	00	03	06	09	12	15	18	21			
N	1.0	10.6	5.6	.3	.0	100	17.5	9.2	13.9	23.3	15.7	12.5	19.4	35.9	19.4	15.8	13.8			
NE	1.0	6.6	1.2	.0	.0	50	8.8	6.9	10.0	6.7	7.5	8.3	9.3	18.8	8.8	12.6	7.9			
E	1.5	6.8	.7	.0	.0	51	5.0	6.3	9.8	.0	4.1	11.1	10.1	6.3	14.0	7.9	28.9			
SE	1.6	10.1	1.8	.0	.0	77	13.5	6.5	14.1	16.7	9.3	13.9	11.1	6.3	18.5	10.5	10.5			
S	1.0	5.6	.3	.0	.0	40	7.1	6.7	7.3	10.0	5.6	3.6	8.5	6.3	4.3	2.6	.0			
SW	1.2	3.9	.4	.1	.0	32	5.6	6.3	7.0	3.3	11.0	11.1	1.6	.0	2.6	.0	.0			
W	1.7	5.0	1.1	.0	.0	45	7.9	6.8	10.0	10.0	12.9	9.7	6.0	6.3	1.7	7.9	26.3			
NW	2.1	12.4	9.4	1.1	.0	145	25.0	10.2	17.0	30.0	33.2	19.4	26.6	20.3	22.8	26.3	.0			
VAR	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
CALM	5.4	349	118	10	0	31	5.4	7.6	10.9	.0	.7	.0	7.1	.0	7.8	.0	19			
TOT OBS	95	61.0	20.6	1.7	.0	572	100.0		110	15	134	96	126	16	116	19	100.0			
TOT PCT	16.6								100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0			

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPO	HOUR (GMT)											
	0-6	7-16	17-27	28-40	41+				00	03	06	09	12	15	18	21				
N	6.3	9.7	1.3	.0	.0	100	17.5	9.2	15.0	15.0	15.0	21.3	18.9							
NE	3.3	3.4	.2	.0	.0	50	8.8	6.9	9.6	7.6	7.6	10.4	8.0							
E	5.8	2.9	.3	.0	.0	51	9.0	6.3	8.6	5.6	5.6	9.7	13.1							
SE	4.4	4.6	.5	.0	.0	77	13.5	6.6	14.4	10.3	10.3	10.6	20.0							
S	4.1	2.9	.0	.1	.0	40	7.1	6.7	7.6	7.4	8.3	5.2	5.2							
SW	3.6	1.7	.2	.1	.0	32	5.6	6.3	6.6	11.0	1.6	2.2	2.2							
W	4.6	2.9	.4	.0	.0	45	7.9	6.8	10.0	12.2	6.0	2.6	2.6							
NW	9.1	12.2	3.6	.2	.0	143	25.0	10.2	18.6	30.3	25.9	23.3	23.3							
VAR	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0							
CALM	5.4	231	38	2	0	31	5.4	7.6	9.6	.6	.6	6.3	6.7							
TOT OBS	50	40.4	6.6	.3	.0	572	100.0		125	170	142	135	135							
TOT PCT	51.6								100.0	100.0	100.0	100.0	100.0							

PERIOD: (PRIMARY) 1948-1970  
(OVER-ALL) 1912-1970

OCTOBER

AREA 0024 N. W. PERSIAN GULF  
27.4N 50.7E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47	48+				
0003	9.6	18.4	56.8	14.4	1.8	.0	.0	.0	6.2	100.0	125
0609	.6	12.9	62.9	21.8	1.8	.0	.0	.0	7.9	100.0	170
1215	5.3	6.3	59.9	24.6	2.8	.0	.0	.0	8.5	100.0	142
1821	6.7	7.4	63.7	20.7	1.5	.0	.0	.0	7.5	100.0	135
TOT	31	64	349	118	10	.0	.0	.0	7.6		572
PCT	5.4	11.2	61.0	20.6	1.7	.0	.0	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)  
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8-6	TOTAL OBS	MEAN CLOUD COVER
N	15.7	1.1	1.0	.2	BD	.7
NE	6.9	.9	1.7	.0	47	.9
E	7.9	.0	1.2	.0	40	1.2
SE	9.9	.4	1.0	.0	50	.9
S	5.5	.2	.2	.0	26	.7
SW	5.3	.6	.2	.0	27	.5
W	6.5	.4	.3	.0	33	.7
NW	23.0	.8	1.6	.1	113	.5
VAR	.0	.0	.0	.0	0	.0
CALM	6.0	.0	.2	.0	28	.1
TOT OBS	88.6	2.7	30	1	448	.7
TOT PCT	88.6	4.5	6.7	.2	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT) NH >4/8  
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000		150		300		600		1000		2000		3500		5000		6500		8000+		NH <5/8		TOTAL	
	149	299	300	599	600	999	1000	1999	2000	3499	4999	5000	6499	7999	8000+	ANY	HGT	OBS						
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.4	17.4	80							
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.3	9.8	47							
E	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.2	.1	8.5	40							
SE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	10.5	50							
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.9	26							
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	5.9	27							
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	7.1	33							
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	1.0	24.3	113							
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0							
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.3	28							
TOT OBS	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.9	448							
TOT PCT	.0	.0	.0	.0	.0	.0	.4	.2	.0	.0	.3	.0	.0	.2	2.7	95.6	100.0							

PERIOD: (PRIMARY) 1949-1970  
(OVERALL) 1912-1970

OCTOBER

AREA 0024 N. W. PERSIAN GULF  
27.4N 50.0E

TABLE 7  
CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE  
OF CEILING HEIGHT (NH > 5/8) AND VSBY (NM)

CEILING (FEET)	OR >10	OR >5	OR >2	VSBY (NM) OR >1	OR >1/2	OR >1/4	OR >0.0	OR >0
OR >6500	2.9	3.1	3.1	3.1	3.1	3.1	3.1	3.1
OR >5000	2.9	3.1	3.1	3.1	3.1	3.1	3.1	3.1
OR >3500	3.5	3.7	3.7	3.7	3.7	3.7	3.7	3.7
OR >2000	3.7	4.2	4.2	4.2	4.2	4.2	4.2	4.2
OR >1000	3.7	4.2	4.2	4.2	4.2	4.2	4.2	4.2
OR >600	3.7	4.2	4.2	4.2	4.2	4.2	4.2	4.2
OR >300	3.7	4.2	4.2	4.2	4.2	4.2	4.2	4.2
OR >150	3.7	4.2	4.2	4.2	4.2	4.2	4.2	4.2
OR >0	3.7	4.2	4.2	4.2	4.2	4.2	4.2	4.2
TOTAL	17	19	19	19	19	19	19	19

TOTAL NUMBER OF OBS: 456

PCT FREQ NH < 5/8: 95.8

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (E'GH/MS)

	0	1	2	3	4	5	6	7	8	9	TOTAL
84.4	4.1	4.8	1.5	.9	.9	2.6	.7	.2	.0	.0	461

PERIOD: (PRIMARY) 1943-1970  
(OVER-ALL) 1912-1970

OCTOBER

AREA 0024, N. W. PERSIAN GULF  
27.4N 50.0E

TABLE 8  
PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF  
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0	0	0	0	0	0	0	0	0	0	0	0
1/2	0	0	0	0	0	0	0	0	0	0	0	0
TOT %	0	0	0	0	0	0	0	0	0	0	0	0
1	0	0	0	0	0	0	0	0	0	0	0	0
1 2<1	0	0	0	0	0	0	0	0	0	0	0	0
TOT %	0	0	0	0	0	0	0	0	0	0	0	0
1<2	0	0	0	0	0	0	0	0	0	0	0	0
1<2	0	0	0	0	0	0	0	0	0	0	0	0
TOT %	0	0	0	0	0	0	0	0	0	0	0	0
2<5	0	0	0	0	0	0	0	0	0	0	0	0
2<5	0	0	0	0	0	0	0	0	0	0	0	0
TOT %	0	0	0	0	0	0	0	0	0	0	0	0
5<10	0	0	0	0	0	0	0	0	0	0	0	0
5<10	3.5	2.5	4.6	6.7	2.9	2.1	2.4	4.6	0	4	29.5	29.5
TOT %	3.5	2.5	4.6	6.7	2.9	2.1	2.4	4.6	0	4	29.5	29.5
10+	0	0	0	0	0	0	0	0	0	0	0	0
10+	13.9	6.9	5.0	7.2	3.9	3.6	4.6	19.4	0	5.4	70.0	70.0
TOT %	13.9	6.9	5.0	7.2	3.9	3.6	4.6	19.4	0	5.4	70.0	70.0
TOT OBS	17.4	9.4	9.7	13.9	6.9	5.6	7.2	24.0	0	5.8	100.0	536

PERIOD: (PRIMARY) 1948-1970  
(OVER-ALL) 1912-1970

OCTOBER

AREA 0024 N. W. PERSIAN GULF  
27.4N 50.0E

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED  
WITH VARYING VALUES OF VISIBILITY

VSRY (NM)	SPO KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
5<10	0-3	.3	.0	.0	.5	.2	.5	.2	.3	.0	.4	.2	
	4-10	2.3	2.0	3.6	5.0	3.1	1.4	1.8	2.3	.0	.0	21.6	
	11-21	.9	.4	.8	1.2	.0	.0	.6	1.7	.0	.0	5.5	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	3.5	2.4	4.4	6.7	3.2	2.0	2.6	4.3	.0	.4	29.4	
10+	0-3	.7	1.1	1.6	1.1	.9	.7	1.5	1.9	.0	5.1	14.5	
	4-10	8.4	5.7	3.2	5.1	2.4	2.3	2.9	10.0	.0	.0	33.0	
	11-21	4.4	.8	.0	.6	.4	.4	.4	7.6	.0	.0	14.7	
	22+	.4	.0	.0	.0	.1	.1	.1	1.1	.0	.0	1.8	
	TOT %	13.9	6.6	4.8	6.8	3.8	3.6	4.9	20.6	.0	5.1	70.0	
TOT OBS		17.4	9.0	9.2	13.6	7.2	5.5	7.7	25.0	.0	5.5	100.0	564
TOT PCT													





## OCTOBER

PERIOD: (PRIMARY) 1948-1970  
(OVER-ALL) 1912-1970

AREA 6024 N. W. PERSIAN GULF  
27.4N 50.0E

TABLE 13

		PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP										TOTAL	PCT
TEMP F		0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	08S	08S		
95/99	.0	.0	.0	.2	2.0	1.4	.4	.0	.0	10	2.0		
90/94	.0	.0	.0	.4	2.3	3.9	3.5	.4	.6	54	11.1		
85/89	.0	.0	.0	.6	5.7	8.4	13.9	9.2	7.6	222	45.5		
80/84	.0	.0	.0	.0	4.5	6.4	6.4	7.2	9.0	168	34.4		
75/79	.0	.0	.0	.0	1.4	1.4	1.6	1.2	1.0	33	6.8		
70/74	.0	.0	.0	.0	.0	.0	.2	.0	.0	1	.2		
TOTAL	.0	.0	.0	.0	73	100	127	88	89	488	100.0		
PCT	.0	.0	2.3	15.0	20.5	26.0	18.0	18.2					

TABLE 14

		PERCENT FREQUENCY OF WIND DIRECTION BY TEMP										VAR	CALM
TEMP F		N	NE	E	SE	S	SW	W	NW	VAR	VAR		
95/99	.2	.4	.2	.2	.2	.0	.0	.6	.2	.0	.0	.0	.0
90/94	3.0	1.1	.9	.3	.3	.5	.5	1.6	2.6	.0	.0	.6	.6
85/89	8.2	4.7	5.1	8.0	3.2	3.2	1.8	1.7	10.9	.0	.0	1.8	1.8
80/84	5.6	3.0	3.3	5.6	2.1	2.1	2.3	2.8	7.1	.0	.0	2.5	2.5
75/79	1.0	.6	.5	.2	.6	.2	.2	.4	2.9	.0	.0	.4	.4
70/74	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOTAL	18.0	9.7	10.0	14.5	7.0	3.1	2.4	3.5	11.5	.0	.0	2.6	2.6
PCT	18.0	9.7	10.0	14.5	7.0	3.1	2.4	3.5	11.5	.0	.0	2.6	2.6

TABLE 15

		MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR										TOTAL
HOUR (GMT)		MAX	99%	95%	50%	5%	1%	MIN	MEAN	08S	08S	
0003	100	90	88	84	78	76	74	74	83.6	124	124	
0609	99	90	94	86	78	75	75	75	86.3	172	172	
1215	99	98	94	87	62	78	78	78	87.4	141	141	
1821	90	89	88	84	77	75	75	75	83.6	133	133	
TOT	100	96	92	85	76	75	75	74	85.3	570	570	

TABLE 16

		PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR										TOTAL
HOUR (GMT)		0-29	30-39	60-69	70-79	80-89	90-100	MEAN	MEAN	08S	08S	
0003	.0	12.3	11.5	25.7	15.0	34.5	79	79	113	113	113	
0609	.0	18.2	26.7	23.1	18.3	11.2	71	71	143	143	143	
1215	.0	23.3	25.0	28.3	15.0	8.3	70	70	120	120	120	
1821	.0	15.4	15.4	26.5	22.2	20.5	76	76	117	117	117	
TOT	0	87	102	127	88	53	74	74	493	493	493	

PERIOD: (PRIMARY) 1966-1970  
(OVER-ALL) 1912-1972

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AREA 0024 N. W. PERSIAN GULF  
27.4N 50.0E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)  
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	73	77	81	85	89	93	TOT	W	WD
	76	80	84	88	92	96		FOG	FOG
9/10	.0	.0	.0	.0	.2	.0	3	.0	.5
7/8	.0	.0	.0	.2	.5	.9	13	.0	2.3
6	.0	.0	.0	.5	.0	.5	4	.0	.9
5	.0	.0	.0	.5	.2	.7	6	.0	1.4
4	.0	.0	.0	.0	.6	.5	10	.0	2.3
3	.0	.0	.0	1.4	1.6	.5	15	.0	3.5
2	.0	.0	.7	1.2	1.2	.7	16	.0	3.7
1	.0	.2	1.2	3.3	1.9	.7	30	.0	7.0
0	.0	.2	2.3	6.3	3.3	.2	53	.0	12.4
-1	.0	.5	3.7	5.4	1.4	.0	47	.0	11.0
-2	.0	.7	5.1	6.3	1.6	.0	59	.0	13.8
-3	.0	.9	2.3	4.9	.5	.0	37	.0	8.6
-4	.0	1.2	4.0	4.7	.2	.0	43	.0	10.0
-5	.2	.5	2.8	3.3	.2	.0	30	.0	7.0
-6	.0	.9	3.7	1.2	.0	.0	25	.0	5.8
-7/-8	.0	.7	3.3	1.6	.0	.0	24	.0	5.6
-9/-10	.2	1.6	.5	.0	.0	.0	10	.0	2.3
-11/-13	.2	.5	.2	.0	.0	.0	4	.0	.9
TOTAL	3	33	126	174	62	21	429	0	925
PCT	.7	7.7	29.8	40.6	14.5	4.9	100.0		99.1

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.7	6.5	.6	.0	.0	.0	7.8	1.5	6.3	.0	.0	.0	.0	7.8
1-2	.0	2.0	.7	.0	.0	.0	2.8	.0	.9	.7	.0	.0	.0	1.7
3-4	.0	.6	3.3	.0	.0	.0	3.9	.0	.0	.9	.0	.0	.0	.9
5-6	.0	.0	.7	.0	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.7	9.1	5.4	.0	.0	.0	15.2	1.5	7.2	1.7	.0	.0	.0	10.4

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.7	8.9	.0	.0	.0	.0	9.6	.7	8.3	.0	.0	.0	.0	8.3
1-2	.0	1.5	.0	.0	.0	.0	1.5	.0	4.6	1.5	.0	.0	.0	6.9
3-4	.0	.7	.0	.0	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.7	11.1	.0	.0	.0	.0	11.9	.7	13.0	1.5	.0	.0	.0	15.2

OCT08ER  
TABLE 18  
AREA 0024 N. W. PERSIAN GULF  
27.4N 50.0E

PERIOD: (PRIMARY: 1963-1970)  
(OVER-ALL)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.7	5.9	.0	.0	.0	.0	8.7	.7	7.0	.0	.0	.0	.0	7.8
1-2	.0	5.0	.7	.0	.0	.0	5.7	.0	1.7	.0	.0	.0	.0	1.7
3-4	.7	.0	.0	.0	.0	.0	.7	.0	.0	.7	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.5	10.9	.7	.0	.0	.0	13.1	.7	8.7	.7	.0	.0	.0	10.2

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	5.7	.0	.0	.0	.0	5.7	.0	6.9	.0	.0	.0	.0	7.0
1-2	.0	1.3	1.9	.0	.0	.0	3.1	.0	3.0	1.1	.0	.0	.0	4.1
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.9	2.4	.0	.0	.0	3.3
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	.0	.0	.0	.7
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	7.0	1.9	.0	.0	.0	8.9	.0	10.7	4.4	.0	.0	.0	15.2

PERIOD: (PRIMARY)  
(OVER-ALL) 1963-1970

OCTOBER

AREA 0034 N. W. PERSIAN GULF  
27.4N 50.0E

TABLE 18 (CONT)

HGT	WIND SPEED (KTS) VS SEA HEIGHT (FT)							TOT OBS
	0-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	7.9	53.6	.7	.0	.0	.0	62.1	
1-2	.7	19.3	6.4	.0	.0	.0	26.4	
3-4	.7	2.1	7.1	.0	.0	.0	10.0	
5-6	.0	.0	1.4	.0	.0	.0	1.4	
7	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	9.3	75.0	15.7	.0	.0	.0	100.0	
							140	

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	2-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+ TOTAL	MEAN HGT
<6	23.3	38.0	11.5	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.5
6-7	.0	.3	1.9	1.1	.0	.3	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2
8-9	.0	.3	.3	.6	.3	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4
10-11	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4
12-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5
INDET	16.1	3.6	1.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	76
TOTAL	143	152	55	10	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	261
PCT	59.3	62.1	55.2	2.8	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0

PERIOD: (PRIMARY: 1950-1970)  
(OVER-ALL) 1910-1970

NOVEMBER

AREA 0024 N. W. PERSIAN GULF  
27.5N 50.2E

TABLE 1

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	RAIN	RAIN SHWR	DRZL	PRECIPITATION TYPE				HAIL	PCT FREQ PCPN AT OB TIME	TOTAL PCPN OBS	THOR				OTHER WEATHER PHENOMENA				TOTAL OBS
				FRZG PCPN	SNOW PCPN	OTHER FRZN PCPN	PCPN				LTNG	WO	HAZE	BLWG	DUST	NO	SIG	WEA	
N	.1	.C	.3	.0	.0	.0	.0	.0	.4	1	.0	.1	.0	.1	.1	.1	.3	.4	84
NE	.4	.C	.0	.0	.0	.0	.0	.0	.4	1	.5	.1	.0	.0	.0	.0	.8	.7	27
E	.1	.C	.0	.0	.0	.0	.0	.0	.1	0	.3	.0	.0	.0	.0	.0	.4	.1	17
SE	.4	.3	.0	.0	.0	.0	.0	.0	.7	2	.8	.0	.0	.0	.0	.0	.2	.1	21
S	.1	.C	.0	.0	.0	.0	.0	.0	.1	0	.C	.0	.0	.0	.0	.0	.8	.4	14
SW	.1	.C	.0	.0	.0	.0	.0	.0	.1	0	.0	.0	.0	.0	.0	.0	.8	.1	11
W	.0	.C	.0	.0	.0	.0	.0	.0	.1	0	.0	.0	.0	.0	.0	.0	.7	.7	17
NW	.0	.C	.0	.0	.0	.0	.0	.0	.C	0	.0	.5	.5	.0	.1	.1	.7	.0	154
VAR	.0	.C	.0	.0	.0	.0	.0	.0	.C	0	.0	.0	.0	.0	.0	.0	.0	.0	0
CALM	.0	.C	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.4	.7	27
TOT OBS	.5	.1	.1	.0	.0	.0	.0	.0	.0	7	.5	.3	.1	.1	.1	.1	.4	.4	566
TOT PCT	1.4	.3	.3	.0	.0	.0	.0	.0	1.9		1.4	.8	.3	.3	.3	.3	.4	.4	100.0

TABLE 2

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	RAIN	RAIN SHWR	ORZL	PRECIPITATION TYPE				HAIL	PCT FREQ PCPN AT OB TIME	TOTAL PCPN OBS	THOR				OTHER WEATHER PHENOMENA				TOTAL OBS
				FRZG PCPN	SNOW PCPN	OTHER FRZN PCPN	PCPN				LTNG	WO	HAZE	BLWG	DUST	NO	SIG	WEA	
0603	1.0	1.0	.0	.0	.0	.0	.0	.0	2.1	2	.5	1.0	.0	.0	.0	.0	.9	.9	97
0609	2.2	.0	1.1	.0	.0	.0	.0	.0	2.3	5	.0	.0	.0	.0	.0	.0	.7	.7	91
1215	1.1	.0	.0	.0	.0	.0	.0	.0	1.1	1	.0	.0	1.1	.0	.0	.0	.9	.9	95
1821	1.0	.0	.0	.0	.0	.0	.0	.0	1.0	1	4.0	2.0	.0	.0	1.0	.0	.9	.9	99
TOT	.5	.1	.1	.0	.0	.0	.0	.0	1.0	7	.5	.3	.1	.1	.1	.1	.5	.5	582
PCT	1.3	.3	.5	.0	.0	.0	.0	.0	1.8		1.3	.8	.5	.5	.5	.5	.5	.5	100.0

PERIOD: (PRIMARY) 1950-1970  
(OVER-ALL: 1910-1970)

NOVEMBER

AREA 0024 N.W. PERSIAN GULF  
27.3N 50.2E

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)					48+	TOTAL OBS	PCT FREQ	MEAN SPO	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47					00	03	06	09	12	15	18	21
N	1.5	11.3	7.6	.8	.0	.0	91	21.7	10.5	23.4	8.3	22.3	21.4	24.5	.0	18.3	3.2
NE	1.9	4.6	1.5	.2	.0	.0	34	8.3	8.1	5.2	8.3	10.4	14.3	6.1	5.0	7.8	23.3
E	1.5	3.4	.9	.0	.0	.0	20	4.8	7.0	5.8	.0	3.0	.0	4.7	15.0	6.4	6.7
SE	1.5	4.2	3.8	.2	.0	.0	41	9.7	9.8	7.4	8.3	4.4	28.2	11.5	40.0	10.0	6.7
S	.8	2.3	1.5	.0	.0	.0	19	4.6	8.4	2.2	8.3	3.3	11.9	4.4	10.0	4.7	13.3
SW	1.1	1.9	.4	.0	.0	.0	14	3.3	5.7	3.8	.0	4.7	2.4	3.9	10.0	1.4	.0
W	1.0	3.1	1.0	.0	.0	.0	21	5.2	7.6	9.3	10.7	7.4	.0	1.5	.0	2.5	11.7
NW	1.2	20.2	12.5	1.1	.0	.0	147	35.1	10.5	35.2	23.3	32.7	21.4	39.5	20.0	38.9	2.7
VAR	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALC	7.4	21.7	12.3	1.0	.0	.0	31	7.4	.0	7.7	16.7	8.6	.0	3.9	.0	10.0	13.3
TOT OBS	71	51.5	29.2	2.4	.0	.0	421	100.0	8.9	91	6	91	21	102	5	90	15
TOT PCT	16.9	12.3	6.6	.6	.0	.0	100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT		MEAN		HOUR (GMT)					
	0-6	7-16	17-27	28-40	41+		FREQ	SPO	00	03	06	09	12	15	18	21
N	5.9	12.2	3.1	.4	.0	91	21.7	10.5	22.4	24.6	23.4	23.4	24.6	16.2	18.3	3.2
NE	3.8	3.6	.8	.0	.0	34	8.3	8.1	5.4	11.2	6.1	5.4	11.2	4.0	7.8	23.3
E	3.5	1.5	.0	.0	.0	20	4.8	7.0	5.4	2.5	5.1	7.5	2.5	6.4	6.4	6.7
SE	3.3	4.9	1.5	.0	.0	41	9.7	9.8	7.5	8.9	12.9	7.5	8.9	9.5	10.0	6.7
S	2.3	1.7	.6	.0	.0	19	4.6	8.4	2.8	4.9	4.7	3.6	4.9	6.2	4.7	13.3
SW	2.3	1.0	.0	.0	.0	14	3.3	5.7	3.6	4.2	4.2	2.8	4.2	1.2	1.4	.0
W	3.0	1.4	.8	.0	.0	21	5.2	7.6	9.8	6.0	1.4	9.8	6.0	3.8	2.5	11.7
NW	8.5	21.3	4.9	.4	.0	147	35.1	10.5	35.1	30.6	38.6	35.1	30.6	36.4	38.9	2.7
VAR	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALC	7.4	21.7	12.3	1.0	.0	31	7.4	.0	8.2	7.1	3.7	8.2	7.1	10.5	10.0	13.3
TOT OBS	167	201	30	3	.0	421	100.0	8.9	97	112	107	97	112	105	100.0	100.0
TOT PCT	39.7	47.7	11.9	.7	.0	100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

# NOVEMBER

PERIOD: (PRIMARY) 1950-1970  
(OVERALL) 1910-1970

AREA 0024 N. W. PERSIAN GULF  
27.3N 50.2E

TABLE 4

## PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GHT)

HOUR	CALM	WIND SPEED (KNOTS)					MEAN	PCT FREQ	TOTAL OBS
		1-3	4-10	11-21	22-33	34-47	48+		
0000	8.2	5.2	53.6	27.8	5.2	.0	.0	9.3	100.0
0600	7.1	8.9	50.0	33.0	.9	.0	.0	9.1	100.0
1200	8.7	12.1	46.7	33.6	3.7	.0	.0	9.9	100.0
1800	10.5	11.4	56.2	21.9	.0	.0	.0	7.2	100.0
TOT	31	40	217	123	10	0	0	8.9	421
PCT	7.4	9.5	51.5	29.2	2.4	.0	.0	100.0	

TABLE 5

## PCT FREQ OF TOTAL CLOUD AMOUNT (HEIGHTS) BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSC	TOTAL OBS	MEAN CLOUD COVER
N	16.0	1.9	4.5	1.4	80	2.4
NE	3.6	1.0	1.9	1.2	43	3.3
E	2.4	.6	1.3	.7	15	2.3
SE	2.6	1.0	2.2	.7	27	3.1
S	2.0	.8	.3	.0	10	1.8
SW	2.2	.4	.3	.0	9	1.6
W	4.3	.2	.3	.0	16	1.0
NW	29.7	3.3	4.3	.4	127	1.3
VAR	.0	.0	.0	.0	0	.0
CALM	5.9	.6	.6	.3	25	1.2
TOT OBS	235	35	53	14	337	1.9
TOT PCT	69.7	10.4	15.7	4.2	100.0	

TABLE 6

## PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT/NH >4/8) AND OCCURRENCE OF RH <5/8 BY WIND DIRECTION

WIND DIR	000	149	150	299	300	599	600	999	1000	1999	3499	4999	5000	6499	7999	8000+	NH <5/8	TOTAL OBS
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	80
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	24
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	12
SE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	27
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	10
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	19
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	16
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	127
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	25
TOT OBS	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	337
TOT PCT	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0



PERIOD: (PRIMARY) 1950-1970  
(OVER-ALL) 1910-1970

NOVEMBER

AREA 0024 N. W. PERSIAN GULF  
27.3N 50.2E

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE  
OF CEILING HEIGHT (NH >4/8) AND VS8Y (NH)

CEILING (FEET)	OR >10	OR >5	OR >2	VS8Y (NH) OR >1	OR >1/2	OR >1/4	OR >50YD	OR >0
OR >6500	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
OR >5000	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
OR >3500	2.6	2.9	2.9	2.9	2.9	2.9	2.9	2.9
OR >2000	3.7	5.2	5.2	5.2	5.2	5.2	5.2	5.2
OR >1000	6.3	8.1	8.1	8.1	8.1	8.1	8.1	8.1
OR >500	6.6	8.6	8.6	8.6	8.6	8.6	8.6	8.6
OR >300	6.6	8.6	8.6	8.6	8.6	8.6	8.6	8.6
OR >150	6.6	8.6	8.6	8.6	8.6	8.6	8.6	8.6
OR >0	6.6	8.6	8.6	8.6	8.6	8.6	8.6	8.6
TOTAL	23	30	30	30	30	30	30	30

TOTAL NUMBER OF OBS: 347

PCT FREQ NH <5/8: 91.4

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	ORSCD	TOTAL OBS
	65.7	10.3	6.4	6.1	1.7	3.6	3.6	1.1	1.4	0	361

PERIOD: (PRIMARY) 1950-1970  
(COVER-ALL) 1910-1970

NOVEMBER

AREA 0024 N. W. PERSIAN GULF  
27.3N 50.2E

TABLE B

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF  
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

USBY (NM)	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NO PCP	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.3	.3
TOT %	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.3	.3
PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
PCP	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.3	.3
NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT %	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.3	.3
PCP	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.3	.3
NO PCP	.0	.0	.0	.0	.1	.1	.0	.3	.0	.0	.5	.5
TOT %	.0	.3	.0	.0	.1	.1	.0	.3	.0	.0	.8	.8
PCP	.3	.0	.1	.4	.0	.0	.0	.0	.0	.0	.8	.8
NO PCP	2.9	.6	.2	.8	.5	.0	1.6	10.5	.0	.3	17.5	17.5
TOT %	3.2	.6	.3	1.2	.5	.0	1.6	10.5	.0	.3	18.3	18.3
PCP	.0	.0	.0	.3	.1	.1	.0	.0	.0	.0	.5	.5
NO PCP	19.5	6.4	4.3	7.2	3.1	2.9	3.1	25.9	.0	7.1	79.8	79.8
TOT %	19.5	6.4	4.3	7.4	3.3	3.0	3.1	25.9	.0	7.1	80.3	80.3
TOT OBS	23.0	7.6	4.8	8.7	4.0	3.1	4.7	36.7	.0	7.4	100.0	366

PERIOD: (PRIMARY) 1950-1970  
(OVER-ALL) 1910-1970

NOVEMBER

AREA 0024 N. W. PERSIAN GULF  
27.3N 50.2E

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED  
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT TOTAL	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.2	.0	.0	.1	.4	.0	.0	.0	.0	.7	.7
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.2	.0	.0	.1	.4	.0	.0	.0	.0	1.0	1.0
5<10	0-3	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2	.5	.5
	4-10	1.6	.2	.1	.4	.5	.0	1.0	6.1	.0	.0	9.8	9.8
	11-21	1.4	.3	.2	1.0	.0	.0	.2	3.4	.0	.0	6.5	6.5
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	3.1	.5	.3	1.3	.5	.0	1.4	9.5	.0	.2	16.8	16.8
10+	0-3	1.6	1.9	.5	1.5	.8	1.1	.8	1.0	.0	7.2	16.2	16.2
	4-10	9.7	4.3	3.4	3.9	1.8	1.9	2.1	14.0	.0	.0	41.0	41.0
	11-21	5.1	.8	.7	2.9	1.4	.0	.8	9.2	.0	.0	22.1	22.1
	22+	.8	.2	.0	.2	.0	.0	.0	1.1	.0	.0	2.4	2.4
	TOT %	18.1	7.3	4.6	8.5	4.0	3.0	3.7	25.4	.0	7.2	81.8	81.8
TOT OBS													*17
TOT PCT		21.4	8.3	4.5	9.8	4.6	3.4	5.1	35.1	.0	7.4	100.0	

NOVEMBER

PERIOD: (PRIMARY) 1950-1970  
(OVER-ALL) 1910-1970

AREA 0024 N. W. PERSIAN GULF  
27.3N 50.2E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH > 4/8) AND  
OCCURRENCE OF NH < 5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 399	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL ANY HGT	NH < 5/8 TOTAL OBS
00003	.0	.0	.0	.0	2.3	2.3	1.1	.0	1.1	1.1	8.0	92.0
06009	.0	.0	.0	.0	3.4	2.3	1.1	.0	1.1	1.1	9.1	90.9
12015	.0	.0	.0	1.1	5.3	4.3	3.2	1.1	.0	.0	14.9	85.1
18021	.0	.0	.0	1.1	.0	.0	.0	.0	.0	.0	1.1	98.9
TOT	0	0	0	2	10	8	5	1	2	2	30	326
PCT	.0	.0	.0	.6	2.8	2.2	1.4	.3	.6	.6	8.4	91.6
												100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	< 1/2	1/2-1	1-2	2-5	5-10	10+	TOTAL OBS
00003	.0	.0	.0	.0	20.2	79.8	84
06009	.0	.0	.0	.0	15.5	84.5	84
12015	.0	.0	.0	1.1	15.1	93.9	93
18021	.0	.0	.0	1.2	19.8	79.1	86
TOT	0	0	0	2	61	284	347
PCT	.0	.0	.0	.6	17.6	81.8	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR  
CEILING HGT (FEET, NH > 4/8) BY HOUR

HOUR (GMT)	< 150 < 500 FT	< 600 < 1000 FT	1000+ AN05+	NH < 5/8 AND 5+ OBS
00003	.0	.0	.0	91.7
06009	.0	.0	.0	90.5
12015	.0	.0	2.2	83.9
18021	.0	.0	2.3	97.7
TOT	0	0	4	315
PCT	.0	.0	1.2	90.6
				100.0

# NOVEMBER

PERIOD: (PRIMARY) 1950-1970  
(OVER-ALL) 1910-1970

AREA 0024 N.W. PERSIAN GULF  
27.3N 50.2E

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL DBS	PCT FREQ
90/94	.0	.0	.3	1.0	1.0	.0	.0	.0	7	2.4
85/89	.0	.0	1.4	2.4	2.0	3.0	.7	.0	25	8.5
80/84	.0	.3	1.4	6.8	11.5	5.4	3.4	2.0	94	31.9
75/79	.0	.0	2.0	5.4	4.7	7.5	4.4	1.7	77	26.1
70/74	.0	.0	1.4	2.4	5.1	3.7	7.1	5.8	75	25.4
65/69	.0	.0	.0	1.4	.7	1.0	1.0	1.7	17	5.8
TOTAL	.0	.3	2.0	5.7	7.4	6.1	4.9	3.3	293	100.0
PCT	.0	.3	6.8	19.3	25.1	20.7	16.6	11.2		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
90/94	.7	.0	.0	.1	.3	.3	.0	.0	.0	1.0
85/89	2.1	.4	.7	1.7	.7	.0	.3	2.5	.0	.0
80/84	8.6	2.9	1.1	3.1	.7	1.4	1.0	10.0	.0	3.1
75/79	5.1	2.5	1.1	1.8	.9	.2	1.2	11.0	.0	2.4
70/74	5.3	1.4	.3	1.5	1.9	.3	1.5	12.1	.0	1.0
65/69	1.3	.3	.0	.0	.0	.0	.3	3.0	.0	.3
TOTAL	68	22	9	24	13	6	14	114	.0	23
PCT	23.1	7.5	3.2	8.2	4.4	2.3	4.9	36.6	.0	7.8

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL DBS
00003	84	83	82	77	67	65	65	75.9	101
06009	92	91	87	78	70	66	66	78.3	114
12015	93	91	88	81	71	66	66	80.1	107
18021	92	86	85	76	70	68	68	76.7	112
TOT	93	91	86	78	69	66	65	77.8	434

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL DBS
00003	.0	23.4	19.4	19.4	26.0	16.9	16.9	16.9	73	77
06009	.0	23.4	27.3	20.8	23.6	13.0	13.0	13.0	71	77
12015	.0	35.2	26.8	22.5	16.1	1.4	1.4	1.4	66	71
18021	.0	25.3	27.7	16.9	18.1	12.0	12.0	12.0	70	83
TOT	0	82	76	66	50	34	34	34	70	308

PERIOD: (PRIMARY) 1950-1970  
(OVER-ALL) 1910-1970

NOVEMBER

AREA 0024 N. W. PERSIAN GULF  
27.3N 50.2E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)  
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	55	59	63	67	71	75	79	83	87	91	95	TOT	W	MD
	68	72	76	80	84	88	92	96					FOG	FOG
14/16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	.0	.7
11/13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	.0	1.7
9/10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8	.0	2.7
7/8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	.0	1.0
6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	.3
5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	.0	1.0
4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6	.0	2.0
3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9	.0	3.0
2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	18	.0	6.0
1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	12	.0	6.4
0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	34	.0	11.1
-1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	26	.0	8.4
-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	32	.0	10.7
-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	32	.0	10.7
-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	27	.0	9.1
-5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	23	.0	7.7
-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	21	.0	7.0
-7/-8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	16	.0	5.4
-9/-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	10	.0	3.4
-11/-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	.0	.7
TOTAL	10	47	65	80	66	21	8	1				298	3	295
PCT	3.4	15.8	21.8	26.8	22.1	7.0	2.7	.3				100.0	1.0	99.0



NOVEMBER  
TABLE 18  
AREA 0024 N. W. PERSIAN GULF  
27.3N 50.2E

PERIOD: (PRIMARY)  
(OVER-ALL) 1963-1970

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	1.2	.0	.0	.0	.0	.2	.0	2.3	.0	.0	.0	.0	2.3
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	.0	.3
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.2	.0	.0	.0	.0	1.2	.0	2.6	.0	.0	.0	.0	2.6

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	5.8	.0	.0	.0	.0	5.8	.0	29.9	.0	.0	.0	.0	29.9
3-4	.0	.9	.0	.0	.0	.0	1.2	.0	3.8	1.2	.0	.0	.0	4.9
5-6	.9	.0	.0	.0	.0	.0	.9	.0	4.7	8.7	1.2	.0	.0	14.5
7	.0	.0	.0	.0	.0	.0	.0	.3	.0	1.5	.0	.0	.0	1.7
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.6	.3	.0	.0	2.9
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.9	6.7	1.2	.0	.0	.0	6.7	.3	38.4	1.0	1.5	.0	.0	34.1





PERIOD: (PRIMARY) 1952-1969  
(OVER-ALL) 1910-1969

DECEMBER

ARE: 0024 N. W. PERSIAN GULF  
26.9N 50.2E

TABLE 1

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	RAIN SHR	RAIN SHR	DRZL PCPN	PRECIPITATION TYPE			HAIL PCPN	PCT FREQ PCPN AT OB TIME	TOTAL OBS	THDR LTNG	OTHER WEATHER PHENOMENA						TOTAL OBS
				FRZG PCPN	SNOW PCPN	OTHER PCPN					FGG PCPN	SMOKE NO	HAZE PCPN	BLWG PCPN	DUST NO	SIG WEA	
N	.2	.2	.1	.0	.0	.0	.0	.5	3	.2	.1	.2	.0	.1	.1	13.7	95
NE	.1	.2	.1	.0	.0	.0	.0	.4	2	.2	.2	.0	.0	.0	.0	2.8	29
E	.2	.1	.0	.0	.0	.0	.0	.2	1	.0	.0	.0	.0	.0	.0	3.7	25
SE	.1	.1	.0	.0	.0	.0	.0	.2	1	.2	.0	.0	.0	.0	.0	8.3	55
S	.2	.1	.0	.0	.0	.0	.0	.3	2	.0	.1	.0	.0	.0	.0	7.8	53
SW	.0	.0	.0	.0	.0	.0	.0	.1	1	.0	.0	.0	.0	.0	.0	2.6	25
W	.0	.0	.1	.0	.0	.0	.0	.1	0	.0	.5	.2	.1	.5	.5	9.8	71
NW	.5	.0	.0	.0	.0	.0	.0	.5	3	.5	.1	.1	.0	.0	.0	32.5	228
VAR	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	9.4	62
TOT OBS	.0	.0	.2	.0	.0	.0	.0	.0	15	.6	.7	.2	.2	.15	.15	39.9	646
TOT PCT	1.4	.6	.3	.0	.0	.0	.0	2.3		.9	1.1	.6	.6	2.3	92.7	100.0	

TABLE 2

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (G+T)	RAIN SHR	DRZL PCPN	PRECIPITATION TYPE			HAIL PCPN	PCT FREQ PCPN AT OB TIME	TOTAL PCPN OBS	THOR LTNG	OTHER WEATHER PHENOMENA						TOTAL OBS
			FRZG PCPN	SNOW PCPN	OTHER PCPN					FGG NO	SMRKE HAZE	BLWG PCPN	DUST NO	SIG WEA		
00003	2.3	.0	.0	.0	.0	.0	2.3	3	.8	1.5	.0	.0	2.3	92.2	122	
06009	.5	.0	.0	.0	.0	.0	1.2	2	.0	1.8	.6	.0	2.9	92.5	170	
12015	1.1	.5	.0	.0	.0	.0	2.7	5	.0	1.1	1.6	.0	2.2	91.7	186	
18021	1.8	.6	1.2	.0	.0	.0	3.6	6	3.0	.0	.0	.0	1.8	91.7	168	
TOT	.9	.3	.0	.0	.0	.0		16	.6	.7	.4	.0	.15	.606	656	
PCT	1.4	.5	.0	.0	.0	.0	2.4		.9	1.1	.6	.6	2.3	92.7	100.0	

DECEMBER

PERIOD: (PRIMARY) 1952-1969  
(OVER-ALL) 1910-1969

AREA: 0024 N. K. PERSIAN GULF  
26.9N 50.3E

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)					TOTAL DBS	PCT FREQ	MEAN SPO	HOUR (GMT)											
	0-3	4-10	11-21	22-33	34-47				48+	00	03	06	09	12	15	18	21			
N	1.8	6.8	6.4	.5	.1	.0	109	15.6	10.5	16.7	.0	11.4	28.8	18.0	18.8	15.1	22.7			
NE	.9	3.3	.5	.0	.0	.0	32	4.7	6.0	3.7	33.3	2.5	7.7	5.9	25.0	4.8	9.1			
E	.9	2.5	.6	.0	.0	.0	28	4.1	6.4	2.6	.0	3.0	.0	4.2	.0	6.6	22.7			
SE	.4	5.1	2.8	.4	.0	.0	61	8.7	10.3	7.9	.0	7.0	7.7	8.8	.0	11.0	4.5			
S	.2	5.6	1.8	.1	.0	.0	58	8.3	8.1	9.2	33.3	10.9	15.4	8.6	.0	4.4	.0			
SW	.4	3.1	.6	.0	.0	.0	28	4.1	7.2	3.9	33.3	7.6	11.5	2.4	.0	1.5	4.5			
W	1.0	6.3	3.1	.3	.0	.0	75	10.7	9.4	15.3	.0	16.1	11.5	5.9	25.0	9.9	4.5			
NW	2.0	11.5	19.0	2.4	.0	.0	246	35.1	12.6	30.5	.0	34.0	17.3	40.2	31.3	36.4	31.8			
VAR	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
CALM	8.8	.0	.0	.0	.0	.0	62	8.8	.0	10.3	.0	6.8	.0	7.0	.0	13.5	.0			
TOT DBS	119	311	244	27	1	0	702	100.0	9.4	136	3	177	13	157	4	171	11			
TOT PCT	17.0	44.3	34.8	3.8	.1	.0				100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0			

TABLE 3A

		WIND SPEED (KNOTS)															
		0-6	7-16	17-27	28-40	41+	TOTAL DBS	PCT FREQ	MEAN SPO	00	03	06	09	12	15	18	21
N	5.2	7.8	2.5	.1	.0	.0	109	15.6	10.5	16.4	12.6	18.1	15.5				
NE	3.1	1.6	.0	.0	.0	.0	32	4.7	6.0	4.3	2.9	4.3	5.1				
E	2.4	1.5	.1	.0	.0	.0	28	4.1	6.4	2.5	2.8	3.1	7.6				
SE	3.7	4.7	1.6	.0	.0	.0	61	8.7	10.3	7.7	7.5	8.6	10.6				
S	3.7	4.2	.4	.0	.0	.0	58	8.3	8.1	9.7	11.2	8.4	4.1				
SW	2.1	1.9	.1	.0	.0	.0	28	4.1	7.2	4.5	7.9	2.4	1.6				
W	4.3	5.1	1.4	.0	.0	.0	75	10.7	9.4	14.9	15.8	6.3	6.7				
NW	5.2	22.3	6.9	.6	.0	.0	246	35.1	12.6	29.9	32.9	40.1	36.1				
VAR	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0				
CALM	8.8	.0	.0	.0	.0	.0	62	8.8	.0	10.1	6.3	6.8	12.6				
TOT DBS	261	345	91	5	0	0	702	100.0	9.4	139	190	191	182				
TOT PCT	37.2	49.1	13.0	.7	.0	.0				100.0	100.0	100.0	100.0				

# DECEMBER

PERIOD: (PRIMARY) 1952-1969  
(OVER-ALL) 1910-1969

AREA 0024 N. W. PERSIAN GULF  
26.9N 50.3E

TABLE 4

## PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
0000	10.1	7.2	53.2	26.6	2.9	.0	.0	8.2	100.0	132
0600	6.3	7.4	45.3	35.3	5.3	.5	.0	10.0	100.0	190
1200	6.8	9.3	40.3	39.2	3.7	.0	.0	10.0	100.0	191
1800	12.6	7.7	40.7	35.7	3.3	.0	.0	9.1	100.0	182
TOT	62	57	311	244	27	1	0	9.4		702
PCT	8.8	8.1	47.3	34.8	3.8	.1	.0		100.0	

TABLE 5

## PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8-6	OBS	TOTAL OBS	MEAN	
							CLOUD	COVER
N	9.6	1.7	2.5	.6	89		3.0	
NE	2.0	1.1	1.2	.4	28		3.4	
E	2.1	1.2	1.2	.4	24		3.2	
SE	4.7	1.6	1.9	.8	55		2.8	
S	2.9	1.4	1.9	1.9	50		4.1	
SW	2.5	.5	.4	.5	24		2.4	
W	7.5	1.2	1.3	.8	67		2.0	
NW	25.9	3.2	5.1	2.1	218		2.1	
VAR	.0	.0	.0	.0	0		.0	
CALC	7.1	1.5	.8	.5	61		1.7	
TOT OBS	386	176	107	50	619		2.4	
TOT PCT	62.4	12.3	17.3	8.1	100.0			

TABLE 6

## PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WIND DIR	000	149	150	299	300	599	600	999	1000	1999	2000	3499	3500	4999	6499	7999	8000+	NH <5/8	ANY HGT	TOTAL OBS
N	.1	.0	.0	.0	.0	.0	.2	.2	.3	.3	.9	.2	.2	.2	.2	.2	.0	.0	12.5	89
NE	.1	.0	.0	.0	.0	.0	.0	.0	.2	.2	.2	.2	.2	.2	.2	.2	.0	.0	3.9	28
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0	3.2	24
SE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.2	.2	.2	.2	.2	.0	.0	7.4	55
S	.1	.0	.0	.0	.0	.0	.2	.2	.2	.2	.7	.5	.5	.5	.4	.2	.1	.1	5.9	50
SW	.1	.0	.0	.0	.0	.0	.2	.2	.0	.0	.4	.0	.0	.0	.0	.2	.0	.0	3.2	24
W	.1	.0	.0	.0	.0	.1	.0	.0	.3	.3	.2	.2	.2	.2	.2	.2	.1	.1	9.9	67
NW	.4	.2	.2	.2	.2	.2	.1	.0	1.2	1.1	1.1	1.1	1.1	.3	.2	.2	.1	.1	30.6	218
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
CALC	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9.4	61
TOT OBS	5	1	1	1	1	1	4	4	13	23	23	15	15	10	10	5	5	5	533	619
TOT PCT	.8	.2	.2	.2	.2	.2	.6	.6	2.1	4.7	4.7	2.1	2.1	1.6	1.6	.8	.8	.8	96.1	100.0

PERIOD: (PRIMARY) 1952-1964  
(OVER-ALL) 1910-1969

DECEMBER

AREJ 0024 N. W. PERSIAN GULF  
26.9N 50.3E

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE  
OF CEILING HEIGHT (NH > 4/8) AND VSBY (NM)

CEILING (FEET)	OR		OR		OR		OR		OR		OR	
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0	>10	>5	>2	>1
OR >6500	1.0	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
OR >5000	2.2	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
OR >3500	4.2	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
OR >2000	7.2	10.1	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2
OR >1000	9.0	12.2	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3
OR >600	9.6	12.6	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0
OR >300	9.8	13.0	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.1
OR >150	9.9	13.1	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2
OR >0	9.9	13.1	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2
TOTAL	62	112	84	84	86	87	87	87	87	87	87	88

TOTAL NUMBER OF OBS: 625

PCT FREQ NH <5/8: 85.9

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	9	TOTAL
	59.9	9.3	7.4	4.8	2.9	3.3	4.8	2.5	3.4	1.2	646

AREA 0024 N. W. PERSIAN GULF  
25.9N 50.3E

DECEMBER

PERIOD: (PRIMARY) 1952-1969  
(OVER-ALL) 1910-1969

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF  
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSRY (NM)	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP .0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP .0	.0	.0	.0	.1	.1	.4	.3	.0	.0	.0	.9
TOT %	.0	.0	.0	.0	.1	.1	.4	.3	.0	.0	.0	.9
1/2<1	PCP .0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP .0	.0	.0	.0	.0	.0	.3	.7	.0	.0	.0	.9
TOT %	.0	.0	.0	.0	.0	.0	.3	.7	.0	.0	.0	.9
1<2	PCP .0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP .2	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.3
TOT %	.2	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.3
2<5	PCP .1	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.3
	NO PCP .2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT %	.3	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.3
5<10	PCP .2	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.2
	NO PCP 3.4	1.2	1.5	3.0	1.9	2.0	5.3	10.6	.0	.0	.0	31.7
TOT %	3.5	1.2	1.7	3.0	1.9	2.0	5.3	10.6	.0	.0	.0	32.0
10+	PCP .2	.2	.0	.2	.3	.2	.1	.5	.0	.0	.0	1.7
	NO PCP 10.5	2.8	2.2	5.4	6.0	1.7	4.8	23.1	.0	.0	.0	63.0
TOT %	10.8	3.0	2.2	5.6	6.3	1.8	4.9	23.6	.0	.0	.0	64.7
TOT OBS												646
TOT PCT	14.8	4.5	3.9	8.6	8.2	3.9	11.0	35.4	.0	9.6	100.0	

PERIOD: (PRIMARY) 1952-1969  
(OVER-ALL) 1910-1969

DECEMBER

AREA 0024 N. W. PERSIAN GULF  
25.9N 50.3E

TABLE 9

PERCENT FREQUENCY OF WIND DIRECTION VS WIND SPEED  
WITH VARYING VALUES OF VISIBILITY

VSRY (mi)	SPO KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.1	.1	.3	.1	.0	.0	.6	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.1	.2	.0	.0	.3	.0
	TOT %	.0	.0	.0	.0	.1	.1	.4	.3	.0	.0	.9	.0
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.3	.5	.0	.0	.7	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1	.0
	TOT %	.0	.0	.0	.0	.0	.0	.3	.6	.0	.0	.9	.0
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.2	.0	.0	.0	.0	.0	.0	.1	.0	.0	.3	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.2	.0	.0	.0	.0	.0	.0	.1	.0	.0	.3	.0
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.2	.1	.1	.0	.0	.0	.1	.0	.0	.0	.6	.0
	11-21	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0
	22+	.1	.0	.0	.0	.0	.0	.0	.2	.0	.0	.3	.0
	TOT %	.3	.3	.1	.0	.0	.0	.1	.2	.0	.0	1.0	.0
5<10	0-3	.1	.0	.6	.0	.0	.1	.3	.0	.0	.0	4.0	.0
	4-10	2.6	1.0	.8	2.0	1.6	1.4	3.2	4.1	.0	2.8	16.7	.0
	11-21	.7	.1	.3	1.0	.2	.3	1.5	5.4	.0	.0	9.5	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.6	.0	.0	.6	.0
	TOT %	3.4	1.1	1.7	3.0	1.8	1.9	5.0	10.1	.0	2.8	30.8	.0
10+	0-3	1.7	.9	.3	.3	.9	.3	.7	2.0	.0	.0	13.5	.0
	4-10	3.8	2.2	1.7	3.0	3.8	1.5	2.9	7.8	.0	.0	25.7	.0
	11-21	5.2	.2	.3	1.8	1.6	.3	1.5	12.8	.0	.0	21.7	.0
	22+	.0	.0	.0	.4	.1	.0	.1	1.0	.0	.0	2.2	.0
	TOT %	11.3	3.3	2.4	5.6	6.4	2.1	5.1	23.6	.0	.0	65.1	.0
TOT OBS		15.1	4.7	4.1	8.5	8.3	4.1	11.0	34.9	.0	9.2	100.0	675

PERIOD: (PRIMARY) 1952-1969  
(COVER-ALL) 1910-1969

AREA 0024 N. W. PERSIAN GULF  
26.9N 50.3E

Table 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH > 4/8) AND OCCURRENCE OF NH < 5/8 BY HOUR

HCUR (CMT)	000 143	150 299	300 599	600 959	1000 1999	2000 3499	3500 4999	5000 5999	6500 7999	8000+	TOTAL	AM <5/8 ANY HGT	TOTAL OBS
000003	.3	.0	.0	.8	.6	5.4	.8	.8	.0	.0	9.3	90.7	129
000009	1.2	.6	.0	.6	3.1	5.5	2.5	2.5	1.8	1.2	19.0	81.0	163
12215	.0	.0	.0	1.1	3.3	3.9	2.8	1.7	1.1	1.7	16.0	84.0	181
18221	.0	.0	.6	.0	.6	3.7	1.8	2.5	.0	.0	9.8	90.2	163
TOT	1	1	1	4	13	29	13	12	5	5	88	548	636
PER	.3	.2	.2	.6	1.0	4.6	2.0	1.9	.8	.8	13.8	86.2	100.0

TABLE 11

PERCENT FREQUENCY VS BY (NM) BY HOUR

4-HOUR (CITY)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL QAS
000203	1.6	.6	.0	1.6	32.8	63.3	128
006609	1.3	.6	.6	1.3	30.8	65.4	159
126115	.0	1.1	.6	.6	30.9	66.9	181
008221	.0	1.2	.0	.0	33.5	65.2	161
TOT	4	6	2	5	201	611	629
PCT	.6	1.0	.3	.8	32.0	65.3	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VIBY (NO): ANO/OR  
CEILING HGT (FEET,NH 24/8), 3Y HOUR

HRUR (GMT)	<150 <50%N	<600 <1	<1000 <5	1000+ AND5+	11/25/6 AND 5+	TOTAL OBS
00003	2.3	3.1	4.7	7.8	11.5	128
06009	1.9	2.5	5.0	17.0	75.0	159
12013	1.1	1.1	3.3	13.3	85.2	181
18021	.6	1.9	1.9	8.7	89.4	161
TOT	9	13	23	76	530	629
PCT	1.4	2.1	3.7	12.1	84.3	100.0



DECEMBER

AREA 0024 N. W. PERSIAN GULF  
26.5N 50.3E

PERIOD: (PRIMARY) 1922-1969  
(OVER-ALL) 1910-1969

TABLE 13

TEMP F	PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP										TOTAL OBS	PCT FREQ
	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100				
85/89	.0	.0	.0	.2	.4	.2	.2	.0			5	.0
80/84	.0	.0	.0	.6	1.0	.8	2.2	.0			23	4.6
75/79	.0	.0	.0	.8	1.6	2.2	2.6	1.2			42	8.4
70/74	.0	.2	.4	2.6	5.6	8.8	6.0	4.2			139	27.7
65/69	.0	.0	1.2	3.4	7.5	6.4	10.4	10.2			181	36.1
60/64	.0	.0	.6	2.6	3.2	5.4	5.8	4.4			110	22.0
55/59	.0	.0	.0	.0	.0	.0	.0	.2			1	.2
TOTAL	0	1	11	51	81	119	136	101			501	100.0
PCT	.0	.2	2.2	10.2	16.0	23.8	27.1	20.2				

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP									
N	NE	E	SE	S	SW	W	NW	VAR	CALM
.4	.2	.2	.0	.0	.0	.0	.2	.0	.0
.9	.6	.3	.8	.2	.0	.3	1.1	.0	.2
1.1	.5	.6	1.5	1.5	.1	1.4	1.4	.0	.2
4.5	1.2	1.1	2.5	2.6	2.3	2.8	9.2	.0	1.4
4.7	1.0	1.4	2.3	2.3	1.8	4.8	13.8	.0	4.2
3.9	.6	.4	.8	.5	.4	1.8	9.2	.0	4.0
.1	.0	.0	.0	.0	.0	.2	.0	.0	.0
.7	.22	.20	.36	.36	.23	.57	.75	.0	.50
15.0	4.4	4.1	7.6	7.2	4.6	11.4	35.0	.0	10.0

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR									
HOUR (GMT)	MAX	99%	95%	90%	5%	1%	MIN	MEAN	TOTAL OBS
00003	77	75	73	66	60	60	59	66.6	134
06004	81	79	78	69	61	60	60	69.0	184
12015	88	87	84	71	61	60	60	71.1	191
18021	81	79	75	68	62	60	60	67.9	182
TOT	88	84	78	68	61	60	59	68.8	691

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR									
HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN
00003	.0	6.4	10.1	19.3	25.7	38.5	83	109	
06004	.0	12.5	28.1	28.1	31.3	15.6	77	128	
12015	.0	18.3	21.1	28.9	26.8	4.9	72	142	
18021	.0	10.8	20.0	24.6	24.6	24.6	77	130	
TOT	.0	63	83	124	138	101	77	509	

PERIOD: (PRIMARY) 1952-1969  
(OVER-ALL) 1910-1969

DECEMBER

AREA 0024 N. W. PERSIAN GULF  
26.9N 50.3E

TABLE 17

PCT AREO DIF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)  
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	57	61	65	69	73	77	81	85	TOT	H FOG	NO FOG
14/16	.0	.0	.0	.0	.5	.0	.7	.7	5	.0	1.9
11/13	.0	.0	.0	1.0	.2	.7	1.4	.2	15	.0	3.6
9/10	.0	.0	.0	.2	.5	1.0	1.0	.0	10	.0	2.4
7/8	.0	.0	.2	.2	.5	1.4	.2	.0	11	.0	2.7
6	.0	.5	.2	.0	.5	.0	.0	.0	5	.0	1.2
5	.0	.0	.0	.2	2.4	.7	.0	.0	14	.0	3.4
4	.0	.0	.2	.2	2.9	.2	.2	.0	16	.0	3.9
3	.0	.5	1.0	.5	.2	.2	.0	.0	10	.0	2.4
2	.2	.2	.7	3.1	1.0	1.0	.0	.0	26	.0	6.3
1	.2	.2	.0	2.2	1.0	.5	.0	.0	29	.0	2.2
0	.2	.2	2.7	4.6	1.2	.5	.0	.0	39	.0	9.4
-1	.2	.2	1.0	3.9	1.9	.2	.0	.0	33	.2	7.7
-2	.0	1.0	4.6	4.1	1.2	.0	.0	.0	45	.7	10.1
-3	.0	.5	2.4	2.4	1.0	.0	.0	.0	20	.0	4.8
-4	.0	.5	3.6	2.9	1.5	.0	.0	.0	31	.2	7.2
-5	.2	1.0	2.4	3.6	1.0	.0	.0	.0	34	.2	8.0
-6	.2	1.0	1.2	1.2	.2	.0	.0	.0	16	.0	3.9
-7/-8	.2	4.1	2.2	2.4	.5	.0	.0	.0	42	.0	10.1
-9/-10	.2	2.7	.2	.7	.0	.0	.0	.0	24	.0	5.8
-11/-12	.2	1.0	.0	.0	.0	.0	.0	.0	5	.0	1.2
-13/-14	.0	1.0	.0	.0	.0	.0	.0	.0	2	.0	.5
-14/-16	.8	1.6	107	132	67	25	15	4	415	.6	409
TOTAL	1.9	13.2	25.6	32.0	16.1	6.0	3.5	1.0	100.0	1.4	98.6
PCT											

PERIOD: (PRIMARY) 1963-1969  
 (OVER-ALL) 1963-1969  
 DECEMBER  
 TABLE 18  
 AREA 0024 N. W. PERSIAN GULF  
 26.9N 50.3E

PCT FREQ CF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N					NE					48+					PCT					
<1	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
1-2	4.3	8.5	1.4	.0	.0	.0	12.7	.5	5.7	.0	.0	.0	.0	6.2	.5	5.7	.0	.0	.0	.0	6.2
3-6	.0	.5	.5	.0	.0	.0	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.4	.4	.0	.0	.0	1.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.5	.0	.4	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-85	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT	4.3	8.9	2.3	.0	.4	.0	15.8	.5	5.7	.0	.0	.0	.0	6.2	.5	5.7	.0	.0	.0	.0	6.2

HGT	E					SE					48+					PCT					
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.0	3.6	.5	.0	.0	.0	5.2	.0	8.4	1.0	.0	.0	.0	9.4	.0	.0	.0	.0	.0	.0	9.4
1-2	.0	.5	.0	.0	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-85	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.0	4.1	.5	.0	.0	.0	5.7	.0	8.9	1.0	.0	.0	.0	9.4	.0	.0	.0	.0	.0	.0	9.4

DECEMBER  
TABLE 18  
AREA 0024, N. W. PERSIAN GULF  
26.9N 50.3E

PERIOD (PRIMARY)  
(OVER-ALL) 1963-1969

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S										SW										PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	4.9	.0	.0	.0	.0	4.9	1.0	4.9	.0	.0	.0	.0	5.9	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.5	1.0	.0	.0	.0	1.5	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	5.4	1.0	.0	.0	.0	6.4	1.0	5.4	.0	.0	.0	.0	6.4	.0	.0	.0	.0	.0	.0	.0

HGT	W										NW										PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.6	10.9	1.4	.0	.0	.0	13.9	2.1	14.3	3.1	.0	.0	.0	19.7	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	2.1	.0	.0	.0	2.1	.0	1.0	3.1	.0	.0	.0	4.1	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.8	2.6	.0	.0	.0	5.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.8	1.5	.0	.0	3.4	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.6	11.3	3.5	.0	.0	.0	16.8	2.1	16.1	10.8	3.6	.1	.0	25.5	.0	.0	.0	.0	.0	.0	.0

PERIOD: (PRIMARY)  
(OVER-ALL): 1963-1969

DECEMBER

AREA 0024 N. W. PERSIAN GULF  
26.9N 50.3E

TABLE 18 (CONT)

WIND SPEED (KTS) VS SEA HEIGHT (FT)									
HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT DBS	
<1	16.8	56.5	6.1	.0	.0	.0	79.4		
1-2	.0	2.3	5.6	.0	.0	.0	7.9		
3-4	.0	2.3	3.7	.0	.0	.0	7.9		
5-6	.0	.0	2.3	1.4	.5	.0	4.2		
7	.0	.0	.0	.5	.0	.0	.5		
8-9	.0	.0	.0	.0	.0	.0	.0		
10-11	.0	.0	.0	.0	.0	.0	.0		
12	.0	.0	.0	.0	.0	.0	.0		
13-16	.0	.0	.0	.0	.0	.0	.0		
17-19	.0	.0	.0	.0	.0	.0	.0		
20-22	.0	.0	.0	.0	.0	.0	.0		
23-25	.0	.0	.0	.0	.0	.0	.0		
26-32	.0	.0	.0	.0	.0	.0	.0		
33-40	.0	.0	.0	.0	.0	.0	.0		
41-48	.0	.0	.0	.0	.0	.0	.0		
49-60	.0	.0	.0	.0	.0	.0	.0		
61-70	.0	.0	.0	.0	.0	.0	.0		
71-86	.0	.0	.0	.0	.0	.0	.0		
87+	.0	.0	.0	.0	.0	.0	.0		
TOT PCT	16.8	61.2	17.8	3.7	.5	.0	100.0	214	

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	32.9	15.7	9.5	4.7	1.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	251	1
6-7	.0	.5	2.1	2.8	1.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	26	5
8-9	.0	.0	.3	.8	.5	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8	6
10-11	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	5
12-13	.0	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	6
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	0
INDET	21.1	1.5	2.6	.3	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	101	1
TOTAL	210	69	57	35	13	5	0	0	0	0	0	0	0	0	0	0	0	0	0	389	2
PCT	54.0	17.7	14.7	9.0	3.3	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

## ANNUAL

PERIOD: (PRIMARY) 1948-1971  
(OVER-ALL) 1864-1971AREA 0024 N. W. PERSIAN GULF  
27.2N 50.2E

TABLE 1

## PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	RAIN	RAIN SHR	DRZL	PRECIPITATION TYPE			HAIL	PCT FREQ PCPN AT OB TIME	TOTAL PCPN OBS	THDR LTNG	OTHER WEATHER PHENOMENA					TOTAL OBS
				FRZG PCPN	SNOW PCPN	OTHER FRZN PCPN					FOG NO PCPN	SMOKE HAZE	DUST BLWG	DUST SNOW	NO SIG WEA	
N	.1		*	.0	.0	.0	.0	.1	6	*	.2	.5	.5	14.8		943
NE	.1	*	*	.0	.0	.0	.0	.1	5	.1	*	.2	.1	7.5		350
E	.1	*	.0	.0	.0	.0	.0	.1	3	.1	*	.4	.0	6.0		418
SE	.1	*	.0	.0	.0	.0	.0	.1	7	.1	.1	.4	.1	8.6		563
S	*	*	*	.0	.0	.0	.0	.1	6	*	.1	.1	.1	4.5		295
SW	*	.0	*	.0	.0	.0	.0	.1	2	.0	.1	.2	.4	3.4		232
W	.1	*	*	.0	.0	.0	.0	.1	5	*	.2	.5	.4	8.5		575
NW	.1	.0	*	.0	.0	.0	.0	.1	8	.1	.9	1.4	1.8	30.8		2068
VAR	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0		0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.1	.4	.2	6.9		434
TOT OBS	30	7	8	.0	.0	.0	.0	.0	45	25	99	235	178	5300		5882
YTT PCT	.5	.1	.1	.0	.0	.0	.0	.8		.4	1.7	4.2	3.3	89.6		100.0

TABLE 2

## PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	RAIN	RAIN SHR	DRZL	PRECIPITATION TYPE			HAIL	PCT FREQ PCPN AT OB TIME	TOTAL PCPN OBS	THDR LTNG	OTHER WEATHER PHENOMENA					TOTAL OBS
				FRZG PCPN	SNOW PCPN	OTHER FRZN PCPN					FOG NO PCPN	SMOKE HAZE	DUST BLWG	DUST SNOW	NO SIG WEA	
0000	.5	.1	.1	.0	.0	.0	.0	.7	9	.8	1.0	3.0	2.9	91.6		1374
0600	1.0	.1	.2	.0	.0	.0	.0	1.2	18	.0	3.9	5.3	3.2	86.4		1513
1200	.2	.1	.1	.0	.0	.0	.0	.4	8	.0	.5	5.2	3.5	90.4		1625
1800	.4	*	.2	.0	.0	.0	.0	.7	11	.9	.9	3.0	3.4	91.1		1421
TOT	30	7	9	.0	.0	.0	.0	.8	46	25	102	242	184	5440		6039
PCT	.5	.1	.1	.0	.0	.0	.0	.8		.4	1.7	4.2	3.3	89.6		100.0

## ANNUAL

PERIOD: (PRIMARY) 1948-1971  
(COVER-ALL) 1864-1971AREA 0024 N. W. PERSIAN GULF  
27.2N 50.2E

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)					PCT FREQ	MEAN SPD	HOUR (GMT)											
	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	00	03	06	09	12	15	18	21				
N	1.3	3.1	5.5	.8	.1	.0	1039	14.3	14.3	14.4	15.2	19.9	22.0	15.1	11.3				
NE	1.1	3.6	1.0	.2	.0	.0	389	5.0	10.9	4.3	5.7	5.5	10.6	17.3	5.9				
E	1.3	4.5	1.2	*	*	.0	425	5.8	2.3	4.4	7.7	7.1	9.6	11.0	9.0				
SE	1.5	5.5	2.2	.3	*	.0	623	8.1	6.4	8.6	10.4	9.1	6.4	12.1	13.2				
S	.8	3.2	.9	*	.0	.0	335	5.6	6.4	5.6	8.1	4.5	2.7	3.8	4.4				
SW	.9	2.5	.4	*	.0	.0	256	6.3	5.6	4.8	3.1	2.1	3.9	1.9	2.8				
W	1.4	6.2	2.6	.1	.0	.0	681	13.0	12.1	14.1	12.4	8.9	7.4	5.6	8.9				
NW	2.2	16.4	14.5	1.8	.1	.0	2288	32.0	38.0	37.2	32.2	38.0	30.1	32.1	35.7				
VAR	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0				
CALM	7.8	1867	216	3.2	11	0	489	9.6	3.9	6.5	5.3	6.0	7.2	10.1	7.6				
TOT OBS	1189	3286	29.4	3.2	.2	.0	6569	1349	111	1539	287	1599	116	1402	166				
TOT PCT	18.1	50.1	29.4	3.2	.2	.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0				

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					41+ TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)											
	0-6	7-16	17-27	28-40					00	03	06	09	12	15	18					
N	4.8	8.5	2.4	.2	.0	1039	15.9	10.5	14.3	14.4	20.1	14.7	14.7							
NE	3.1	2.4	.4	*	.0	389	5.9	7.7	5.0	4.6	7.0	7.2	7.2							
E	4.1	2.7	.2	*	.0	425	7.1	7.0	5.5	4.9	7.4	10.6	10.6							
SE	4.3	4.4	.8	*	.0	623	9.5	7.7	8.1	9.0	8.7	12.7	12.7							
S	2.6	2.1	.2	*	.0	335	5.0	6.9	5.6	6.1	4.3	3.9	3.9							
SW	2.5	1.2	.1	*	.0	256	3.8	6.3	6.3	4.5	2.3	2.1	2.1							
W	4.8	4.9	.7	*	.0	681	10.4	8.1	13.5	13.9	6.9	7.0	7.0							
NW	8.4	20.1	6.1	.4	*	2288	34.4	11.1	32.4	36.6	37.2	32.6	32.6							
VAR	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0							
CALM	7.6	3027	713	49	1	489	7.6	.0	9.1	6.2	5.3	9.7	9.7							
TOT OBS	2779	46.2	10.9	.7	*	6569	100.0	8.8	1460	1826	1713	1568	1568							
TOT PCT	42.2	46.2	10.9	.7	*	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0							

# ANNUAL

AREA 0024 N. W. PERSIAN GULF  
27.2N 50.2E

PERIOD: (PRIMARY) 1948-1971  
(OVER-ALL) 1854-1971

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR (ALM)	WIND SPEED (KNOTS)					PCT FREQ	TOTAL OBS
	1-3	4-10	11-21	22-33	34-47		
0003	9.1	51.3	26.3	3.1	.0	8.4	1460
0609	6.2	50.2	29.4	3.4	.0	9.0	1826
1215	5.9	48.6	31.7	4.1	.3	9.5	1715
1821	9.7	50.6	25.8	2.2	.0	8.1	1568
TOT	489	3286	1867	216	11	8.1	6569
PCT	7.6	50.1	28.4	3.2	.2	100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)  
BY WIND DIRECTION

WIND DIR	PCT FREQ					TOTAL OBS	MEAN CLOUD COVER
	0-2	3-4	5-7	8-11	12-15		
N	12.1	1.0	2.1	1.0	1.0	877	1.5
NE	4.6	.5	.8	.1	.1	333	1.7
E	5.3	.3	1.1	.1	.1	388	1.9
SE	6.3	.8	1.4	.5	.5	507	1.8
S	3.2	.3	.6	.3	.3	265	1.6
SW	3.2	.2	.2	.2	.2	221	1.3
W	8.2	.3	.6	.3	.3	531	1.1
NW	29.1	1.9	2.7	1.1	1.1	1897	1.1
VAR	.0	.0	.0	.0	.0	0	.0
CALM	6.6	.4	.6	.2	.2	415	.9
TOT OBS	4275	343	552	270	270	5460	1.4
TOT PCT	78.8	5.2	10.2	4.9	4.9	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT) NH 47/R)  
AND OCCURRENCE OF NH 45/8 BY WIND DIRECTION

WIND DIR	PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT) NH 47/R)										TOTAL OBS
	000	150	299	300	600	999	1000	1999	2000	3499	
N	.0	.0	.0	.0	.1	.1	.4	.4	.3	.2	977
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	333
E	.0	.0	.0	.0	.0	.0	.1	.1	.2	.1	388
SE	.0	.0	.0	.0	.0	.0	.2	.2	.3	.2	507
S	.0	.0	.0	.0	.0	.0	.0	.1	.1	.1	265
SW	.0	.0	.0	.0	.0	.0	.1	.1	.1	.1	221
W	.1	.0	.0	.0	.0	.0	.1	.1	.1	.1	531
NW	.1	.0	.0	.1	.0	.0	.4	.3	.1	.1	1897
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
CALM	.0	.0	.0	.0	.0	.0	.1	.1	.1	.1	415
TOT OBS	15	4	7	7	13	13	90	61	109	31	5460
TOT PCT	.3	.1	.1	.1	.2	.2	1.7	1.1	1.8	.8	100.0



PERIOD: (PRIMARY) 1948-1971  
(OVER-ALL) 1864-1971

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AREA 0024 N. W. PERSIAN GULF  
27.2N 50.2E

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE  
OF CEILING HEIGHT (NH > 4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)					
	OR >10	OR >5	OR >2	OR >1	OR >1/2	OR >1/4
OR >6500	.9	1.9	1.9	1.9	1.9	1.9
OR >5000	1.2	2.4	2.5	2.5	2.6	2.6
OR >3500	1.9	3.4	3.6	3.6	3.6	3.6
OR >2000	2.7	5.1	5.3	5.4	5.4	5.4
OR >1000	3.8	6.8	7.1	7.1	7.1	7.1
OR >600	3.9	7.0	7.3	7.3	7.4	7.4
OR >300	4.0	7.1	7.4	7.5	7.5	7.5
OR >150	4.0	7.2	7.5	7.5	7.6	7.6
OR >50	4.0	7.2	7.6	7.7	7.8	7.8
TOTAL	235	417	437	441	444	450

TOTAL NUMBER OF OBS: 5552

PCT FREQ NH <5/61 91.9

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	9	TOTAL
76.8	6.5	4.5	2.6	1.5	1.5	1.6	2.6	1.2	2.5	.4	5771

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PERIOD: (PRIMARY) 1948-1971  
(OVER-ALL) 1963-1971

TABLE C

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF  
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL CBS
PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NO PCP	.1	*	*	*	*	*	.1	.3	.0	*	.5	.5
TOT %	.1	*	*	*	*	*	.1	.3	.0	*	.5	.5
1/2<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NO PCP	*	*	.0	*	.0	.0	.1	.2	.0	.0	.3	.3
TOT %	*	*	.0	*	.0	.0	.1	.2	.0	.0	.3	.3
1<2	*	*	.0	*	.0	.0	.0	.0	.0	.0	*	*
NO PCP	.2	*	.0	*	*	*	.2	.7	.0	*	1.2	1.2
TOT %	.2	*	.0	*	*	*	.2	.7	.0	*	1.2	1.2
2<5	*	*	*	*	.0	*	*	.0	.0	.0	.1	.1
NO PCP	.3	.1	.1	.2	.1	.1	.2	1.2	.0	.2	2.5	2.5
TOT %	.3	.1	.1	.2	.1	.1	.2	1.2	.0	.2	2.6	2.6
5<10	.1	*	*	.1	*	.0	*	*	.0	.0	.3	.3
NO PCP	4.5	1.7	2.7	3.0	1.7	1.2	3.4	11.4	.0	2.8	32.9	32.9
TOT %	4.6	1.8	2.7	3.7	1.7	1.2	3.4	11.5	.0	2.8	33.2	33.2
10+	*	*	*	*	.1	*	*	.1	.0	.0	.4	.4
NO PCP	10.8	4.0	4.2	5.6	2.6	2.5	5.9	21.5	.0	4.5	61.8	61.8
TOT %	10.9	4.0	4.2	5.6	2.9	2.5	5.9	21.6	.0	4.5	62.2	62.2
TOT OBS	16.0	5.9	7.1	9.6	4.8	3.6	9.6	35.3	.0	7.6	100.0	100.0
TOT PCT	16.0	5.9	7.1	9.6	4.8	3.6	9.6	35.3	.0	7.6	100.0	100.0

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PERIOD: (PRIMARY) 1948-1971  
(OVER-ALL) 1864-1971

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AREA 0024, N. W. PERSIAN GULF  
27.2N 50.2E

TABLE 9

PERCENT FREQ OF WIND DIRECT: IN VS WIND SPEED  
WITH VARYING VALUES OF VISIBILITY

WIND SPEED	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
0-3 KTS	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1
4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2
11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1
22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1
TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	.5
1/2<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1
11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1
22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2
1<2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
2<5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5<10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT OBS	15.8	5.9	7.1	9.5	5.0	3.8	10.2	35.1	.0	7.6	100.0	6354

PERIOD: (PRIMARY) 1968-1971  
(OVER-ALL) 1964-1971

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27.2N 50.2E

TABLE 10  
PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH > 4/8) AND  
OCCURRENCE OF NH < 5/8 BY HOUR

HOUR (GMT)	000	150	300	450	600	750	900	1050	1200	1350	1500	1650	1800	1950	2100	2250	2400	TOTAL	NN < 5/8 ANY HGT	TOTAL	NN < 5/8 TOTAL
0000Z	.2	.1	.4	.1	.1	1.6	1.8	.7	.3	.9	1.0	7.1	92.9	1342							
0600Z	.2	.2	.0	.3	1.7	2.0	1.1	.7	.8	1.7	8.6	91.4	1489								
1201Z	.3	.0	.1	.3	2.3	1.8	1.3	.9	.9	1.3	9.1	90.9	1563								
1802Z	.3	.0	.1	.2	.9	1.6	.8	.4	.6	.3	5.2	94.8	1337								
TOT	16	4	7	14	93	110	61	36	47	64	452	5219	5731								
PCT	.3	.1	.1	.2	1.7	1.8	1.0	.6	.8	1.1	7.6	92.1	100.0								

TABLE 11

PERCENT FREQUENCY VSBY (NH) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<3	3<4	4<5	5<6	6<7	7<8	8<9	9<10	10<11	11<12	12<13	13<14	14<15	15<16	16<17	17<18	18<19	19<20	20<21	21<22	22<23	23<24	TOTAL	TOTAL OBS
0000Z	.5	.1	.1	2.3	32.9	64.2	1303																				
0600Z	.3	.1	.2	2.7	32.5	63.9	1414																				
1201Z	.5	.2	.2	2.1	29.4	67.2	1536																				
1802Z	.3	.3	.2	2.3	33.2	63.4	1307																				
TOT	24	12	19	118	1778	3609	5560																				
PCT	.4	.2	.3	2.3	31.8	64.9	100.0																				

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NH) AND/OR  
CEILING HGT (FEET, NH > 4/8) BY HOUR

HOUR (GMT)	<120	<150	<200	<250	<300	<400	<500	<600	<800	<1000	1000+	NN < 5/8 AND 5+	TOTAL OBS
0000Z	.4	1.3	3.7	6.0	90.3	1303							
0600Z	.3	.8	4.0	8.0	87.9	1414							
1201Z	.5	1.1	3.8	8.0	88.2	1536							
1802Z	.5	1.0	3.6	4.7	91.7	1307							
TOT	25	56	198	392	4970	5560							
PCT	.4	1.0	3.8	6.8	89.5	100.0							

## ANNUAL

PERIOD: (PRIMARY) 1948-1971  
(OVER-ALL) 1864-1971AREA 0024 N. W. PERSIAN GULF  
27.2N 50.2E

TABLE 13

## PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
100/104	.1	.3	.3	.7	1.0	1.2	.8	.0	22	.5
95/92	.1	.3	.4	.9	2.4	4.3	5.0	.4	210	4.5
90/94	.0	.2	.4	1.5	3.7	4.9	4.9	1.1	832	17.4
85/89	.0	.1	.4	1.5	3.7	3.0	3.3	2.9	923	18.4
80/84	.0	.1	.4	1.5	3.3	3.0	3.3	2.4	678	14.0
75/79	.0	.0	.2	.9	1.7	3.7	3.0	1.5	465	10.1
70/74	.0	.0	.2	.8	2.1	3.7	3.5	2.6	587	12.7
65/69	.0	.0	.2	1.3	2.3	3.5	4.0	3.0	689	14.2
60/64	.0	.0	.2	1.0	1.6	1.9	1.7	1.3	403	7.9
55/59	.0	.0	.0	.0	.1	.4	.2	.1	23	.4
50/54	.0	.0	.0	.0	.0	.0	.0	.0	2	.0
TOTAL	5	28	160	495	973	1254	1178	741	4836	100.0
PCT	.1	.6	3.5	10.5	20.4	25.9	24.1	14.8		

TABLE 14

## PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
100/104	.1	.1	.0	.2	.0	.8	.5	.1	.0	.1
95/92	.9	.3	.4	.2	.1	.1	.5	1.7	.0	.2
90/94	2.6	.9	1.3	1.1	.7	.5	2.3	3.7	.0	1.2
85/89	2.5	1.4	1.3	1.5	.8	.8	2.2	6.4	.0	1.3
80/84	2.4	1.1	1.1	1.3	.6	.8	1.1	4.4	.0	1.2
75/79	1.6	.7	1.8	1.3	.7	.3	.9	2.7	.0	1.0
70/74	1.9	.6	1.0	1.6	.7	.5	1.1	4.1	.0	1.2
65/69	2.1	.7	1.8	1.7	.9	.6	1.5	5.0	.0	.9
60/64	1.2	.2	.2	.7	.4	.2	.6	5.8	.0	.6
55/59	.1	.2	.0	.2	.4	.0	.1	.2	.0	.0
50/54	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOTAL	745	294	350	488	237	190	495	1696	0	355
PCT	15.4	6.0	7.1	9.7	4.9	3.8	10.3	35.2	.0	7.7

TABLE 15

## MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00103	100	84	83	77	71	69	52	77.5	1460
06109	103	91	88	80	74	71	53	80.1	1835
12115	103	94	91	82	75	72	55	81.0	1690
18121	100	87	84	78	73	71	54	77.9	1576
TOT	103	92	88	79	73	70	52	79.2	6561

TABLE 16

## PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00103	.0	8.3	15.6	22.7	27.5	25.9	80	1150
06109	.0	17.7	21.1	27.3	22.1	11.7	73	1322
12115	.2	21.5	21.8	27.4	19.1	6.0	70	1289
18121	.2	9.9	18.1	26.5	29.1	16.3	77	1195
TOT	5	705	996	1292	1207	751	75	4956

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ANNUAL

PERIOD: (PRIMARY) 1948-1971  
(OVER-ALL) 1864-1971

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)  
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	49	51	53	55	57	59	61	63	65	67	69	71	73	75	77	79	81	83	85	87	89	91	93	95	97	99	NO FOG
17/19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
14/16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
11/13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8/10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7/8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
-1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
-5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
-7/-8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
-9/-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
-11/-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
-14/-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOTAL	.1	.7	.55	.299	.11	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2
PCT	.1	.1	1.2	6.8	10.7	11.8	9.0	8.4	11.2	14.4	15.1	8.1	4.18	784	744	4745	100.0	2.0	96	4573	96	4573	96	4573	96	4573	96

PERIOD: (PRIMARY) 1973-1971  
(OVER-ALL)

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TABLE 18

AREA OC24 N. W. PERSIAN GULF  
27.2N 50.2E

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.2	7.1	1.7	.0	.0	.0	9.0	.6	3.0	.4	.0	.0	.0	4.0
1-2	1.2	2.0	1.0	.0	.0	.0	3.1	.0	1.1	.4	.0	.0	.0	1.5
3-4	.0	.8	1.3	.2	.0	.0	2.2	.0	.1	.1	.0	.0	.0	.2
5-6	.0	.0	.6	.1	.0	.0	.7	.0	.0	.2	.0	.0	.0	.3
7	.0	.0	.4	.1	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-14	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.3	9.9	4.0	.4	.0	.0	15.6	.6	4.3	1.0	.2	.0	.0	6.1

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.8	9.0	.1	.0	.0	.0	9.9	.6	5.1	.1	.0	.0	.0	5.7
1-2	.5	1.0	.1	.0	.0	.0	1.5	.4	1.3	.4	.0	.0	.0	2.1
3-4	.2	.2	.2	.0	.0	.0	.7	.0	.2	.6	.2	.0	.0	.9
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.5	5.3	.3	.0	.0	.0	7.1	1.0	6.6	1.1	.4	.0	.0	9.0

ANNUAL  
TABLE 18  
AREA 0024 N. W. PERSIAN GULF  
27.2N 50.2E

PERIOD (PRIMARY)  
(OVER-ALL) 1963-1971

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.8	3.4	.2	.0	.0	.0	4.3	.7	3.6	.2	.0	.0	.0	4.5
1-2	.0	.9	.2	.0	.0	.0	1.0	.2	1.0	.2	.0	.0	.0	1.4
3-4	.1	*	.2	.0	.0	.0	.3	.0	.1	.1	.0	.0	.0	.1
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.9	4.3	.5	.0	.0	.0	5.7	.8	4.7	.5	.0	.0	.0	6.0

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.8	6.0	.8	.0	.0	.0	8.1	1.4	12.9	1.2	.0	.0	.0	15.4
1-2	.0	1.5	1.1	.0	.0	.0	2.9	.5	5.6	1.2	.0	.0	.0	11.5
3-4	.0	.5	.5	.0	.0	.0	.0	.1	1.3	4.5	.8	.0	.0	6.6
5-6	.1	.0	.0	.0	.0	.0	.1	*	.3	2.1	.3	.0	.0	3.0
7	.0	.1	.0	.0	.0	.0	.1	.6	.8	.8	.5	.0	.0	1.4
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.1	.0	.0	.4
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.8	9.0	2.4	.0	.0	.0	12.2	2.1	20.3	14.3	1.6	.0	.0	38.3



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TABLE 18 (CONT)

WIND SPEED (KTS) VS SEA HEIGHT (FT)									
HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT	D85
<1	18.3	40.4	3.3	.0	.0	.0	62.0	.0	
1-2	1.3	12.8	7.4	.0	.0	.0	21.7	.0	
3-4	.3	2.8	6.5	1.0	.0	.0	10.6	.0	
5-6	.2	.5	2.3	.6	.0	.0	3.6	.0	
7	.1	.1	1.1	.5	.0	.0	1.8	.0	
8-9	.3	.0	.2	.1	.0	.0	.3	.0	
10-11	.3	.0	.0	.6	.0	.0	.0	.0	
12	.3	.0	.0	.0	.0	.0	.0	.0	
13-14	.3	.0	.0	.0	.0	.0	.0	.0	
17-19	.3	.0	.0	.0	.0	.0	.0	.0	
20-22	.3	.0	.0	.0	.0	.0	.0	.0	
23-25	.3	.0	.0	.0	.0	.0	.0	.0	
26-32	.3	.0	.0	.0	.0	.0	.0	.0	
33-43	.0	.0	.0	.0	.0	.0	.0	.0	
44-48	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	20.3	56.5	20.9	2.2	*	.0	100.0	1311	

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-9	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+ TOTAL	MEAN HGT	
<6	21.5	24.7	13.1	2.7	.8	.1	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2170	4
6-7	.2	1.0	2.3	2.6	1.0	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	239	4
8-9	.3	.3	.3	.6	.5	.2	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	57	6
10-11	.0	.1	.0	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	12	5
12-13	.0	.0	.1	.1	.0	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	18	5
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	1
INDET	21.3	3.4	1.9	.2	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	929	2
TOTAL	1313	594	582	213	79	29	3	2	0	0	0	0	0	0	0	0	0	0	0	3415	
PCT	42.9	20.2	17.8	6.0	2.5	.9	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

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TABLE 20

PERCENT FREQUENCY OF OCCURRENCE OF SEA TEMP (DEG F) BY MONTH

SEA TEMP DEG F	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN	PCT
96+	.0	.0	.0	.0	.0	.0	.2	.6	.8	.0	.0	.0	9	.2
95/96	.0	.0	.0	.0	.0	.0	1.2	23.0	18.2	.4	.0	.0	236	4.3
95/94	.0	.0	.0	.0	.0	.0	1.2	15.9	10.2	3.1	.0	.0	166	3.0
91/92	.0	.0	.0	.0	.0	.0	2.2	25.3	18.6	10.1	.0	.0	333	6.1
89/90	.0	.0	.0	.0	.0	.0	9.9	19.3	19.7	25.1	.0	.0	485	8.9
87/88	.0	.0	.0	.0	.0	.0	28.0	11.4	15.5	23.7	3.7	.0	474	8.7
85/86	.0	.0	.0	.0	.0	.0	22.2	3.1	8.0	19.1	7.9	.0	418	7.7
83/84	.0	.0	.0	.0	.0	.0	24.1	1.6	3.8	11.0	13.5	.0	333	6.1
81/82	.0	.0	.0	.0	.0	.0	8.4	1.6	4.5	16.4	23.7	.0	371	6.8
80/80	.0	.0	.0	.0	.0	.0	3.4	.0	.0	.7	12.2	2.6	246	4.5
77/78	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	17.6	7.0	200	3.7
75/76	1.9	1.6	4.3	18.0	12.5	1.0	.0	.0	.0	.0	12.4	2.6	261	4.8
73/74	3.7	3.7	10.0	25.8	5.8	.0	.0	.0	.0	.0	7.6	12.3	312	5.7
71/72	17.1	6.9	14.6	18.4	1.8	.0	.0	.0	.0	.0	5.6	11.8	365	6.7
69/70	17.7	25.9	22.3	12.4	.0	.0	.0	.0	.0	.0	3.7	21.1	434	8.0
67/68	13.1	21.6	24.6	3.9	.0	.0	.0	.0	.0	.0	8.5	15.1	325	6.0
65/66	11.7	15.6	11.1	1.4	.0	.0	.0	.0	.0	.0	.6	14.5	173	3.2
63/64	14.1	15.6	9.7	.6	.0	.0	.0	.0	.0	.0	.0	2.6	174	3.2
61/62	8.1	5.0	2.9	.0	.0	.0	.0	.0	.0	.0	.0	1.9	76	1.4
59/60	4.5	3.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.1	44	.8
57/58	2.1	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.9	16	.3
55/56	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
53/54	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
51/52	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
49/50	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
47/48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
45/46	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
43/44	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
41/42	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
39/40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
37/38	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
35/36	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
33/34	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
31/32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
29/30	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
27/28	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
25/26	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
23/24	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
21/22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
19/20	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
17/18	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
15/16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
13/14	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
11/12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
9/10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
7/8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
5/6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
3/4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
1/2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
TOTAL	469	379	350	484	448	499	415	491	639	455	355	470	5454	100.0
MEAN	67.5	67.1	68.8	73.8	79.3	84.7	87.7	91.4	90.2	87.4	79.2	71.2	79.7	

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TABLE 21  
PRESSURE (MB)

MO	AVERAGE BY HOUR (GMT)												TOTAL HRS	EXTREMES				
	0000	0300	0600	0900	1200	1500	1800	2100	MEAN	MAX	YEAR	DA		HR	MIN	YEAR	DA	HR
JAN	1018	1016	1020	1017	1017	1017	1018	1019	1018	614	1026	1914	01	06	1010	1969	21	12
FEB	1015	1019	1018	1015	1016	1015	1017	1013	1017	503	1025	1953	16	06	1005	1964	12	18
MAR	1014	1015	1016	1015	1014	1015	1014	1015	1013	448	1024	1953	28	00	1004	1971	20	12
APR	1011	1012	1012	1011	1011	1012	1011	1011	1011	502	1020	1956	02	12	1001	1963	04	06
MAY	1007	1006	1008	1007	1007	1007	1007	1005	1007	522	1016	1965	04	12	998	1966	30	12
JUN	1001	1000	1002	1003	1001	1002	1000	1002	1001	498	1003	1959	08	12	994	1953	28	00
JUL	997	999	997	998	997	997	997	997	998	417	1004	1955	23	06	991	1937	16	09
AUG	999	1000	1001	999	999	999	1000	996	1000	491	1018	1968	31	06	991	1953	20	00
SEP	1003	1005	1006	1006	1005	1005	1003	1004	1005	626	1013	1937	26	09	997	1955	02	00
OCT	1011	1011	1013	1012	1011	1011	1012	1013	1012	560	1019	1968	28	06	1004	1953	18	00
NOV	1016	1015	1018	1015	1016	1015	1016	1015	1016	402	1024	1955	19	06	1009	1969	19	00
DEC	1018	1021	1020	1019	1018	1015	1019	1016	1019	664	1026	1954	15	18	1011	1954	22	06
ANN	1009	1008	1011	1009	1010	1007	1010	1010	1010	6247								
OBS	1292	113	1461	248	1538	118	1348	129										

PERCENTILES

MO	1%	5%	25%	50%	75%	95%	99%
JAN	1011	1012	1016	1018	1021	1024	1025
FEB	1006	1009	1015	1017	1019	1022	1024
MAR	1006	1008	1012	1015	1017	1020	1022
APR	1002	1006	1009	1011	1013	1016	1018
MAY	999	1001	1005	1007	1009	1012	1013
JUN	997	998	1001	1001	1002	1005	1006
JUL	992	994	996	998	999	1001	1002
AUG	992	995	998	1000	1002	1004	1004
SEP	998	999	1003	1005	1008	1011	1012
OCT	1005	1007	1010	1012	1014	1017	1018
NOV	1010	1012	1014	1016	1018	1021	1023
DEC	1012	1013	1016	1019	1021	1023	1025